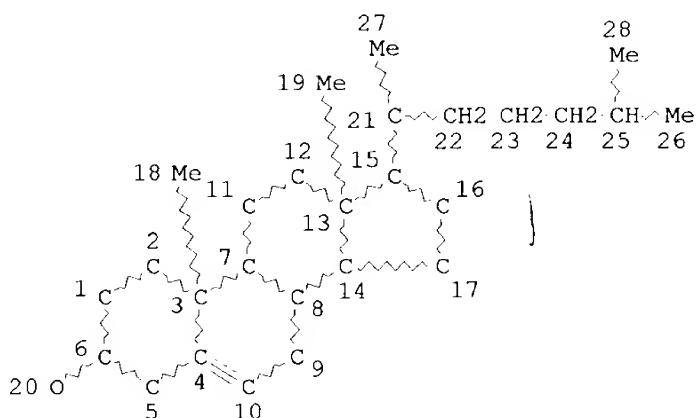


=> d que

L3

STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

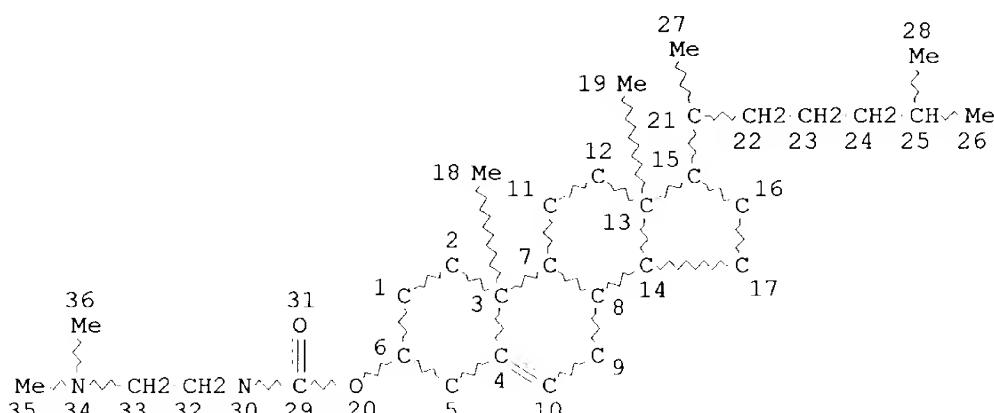
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 28

STEREO ATTRIBUTES: NONE

L5 8810 SEA FILE=REGISTRY SSS FUL L3

L8 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 36

STEREO ATTRIBUTES: NONE

L9 12 SEA FILE=REGISTRY SUB=L5 SSS FUL L8
 L10 746 SEA FILE=REGISTRY ABB=ON PLU=ON L5 AND PMS/CI
 L11 STR

CH2 CH2 N
 1 2 3

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 3

STEREO ATTRIBUTES: NONE

L12 121 SEA FILE=REGISTRY SUB=L10 SSS FUL L11
 L13 8 SEA FILE=REGISTRY ABB=ON PLU=ON L12 AND PM/PCT
 L14 225 SEA FILE=HCAPLUS ABB=ON PLU=ON L9
 L15 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L13
 L16 2139 SEA FILE=HCAPLUS ABB=ON PLU=ON "IMMUNIZATION (L) VACCINATION"
 +OLD/CT
 L17 31952 SEA FILE=HCAPLUS ABB=ON PLU=ON VACCINES+NT/CT
 L20 28 SEA FILE=HCAPLUS ABB=ON PLU=ON (L14 OR L15) AND (L16 OR L17
 OR VACCIN?)
 L25 21 SEA FILE=HCAPLUS ABB=ON PLU=ON L20 AND (ADJUVANT OR MAMMAL?
 OR HUMOR? OR CYTOTOXIC T OR TH1? OR INFLUENZA OR FLU OR
 HAEMAGGLUTIN? OR HEMAGGLUT? OR HEMAGLUT? OR SUBCUT? OR MUCOS?
 OR INTRANAS?)
 L27 28 SEA FILE=HCAPLUS ABB=ON PLU=ON L20 OR L25

=> d ibib abs hitind hitstr 127 1-28

L27 ANSWER 1 OF 28 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:736708 HCAPLUS
 DOCUMENT NUMBER: 137:246541
 TITLE: Subunit respiratory syncytial virus preparation
 INVENTOR(S): Cates, George A.; Sanhueza, Sonia E.; Oomen, Raymond
 P.; Klein, Michel H.
 PATENT ASSIGNEE(S): Can.
 SOURCE: U.S. Pat. Appl. Publ., 23 pp., Cont.-in-part of U.S.
 6,309,649.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002136739	A1	20020926	US 2001-950655	20010913
US 6020182	A	20000201	US 1996-679060	19960712
WO 9802457	A1	19980122	WO 1997-CA497	19970711
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL,			

PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ,
 VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR,
 GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,
 GN, ML, MR, NE, SN, TD, TG

US 6309649 B1 20011030 US 1999-214605 19990503
 PRIORITY APPLN. INFO.: US 1996-679060 A2 19960712
 WO 1997-CA497 A2 19970711
 US 1999-214605 A2 19990503

AB The fusion (F) protein, attachment (G) protein, and matrix (M) protein of respiratory syncytial virus (RSV) are isolated and purified from respiratory syncytial virus by mild detergent extrn. of the proteins from concd. virus, loading the protein onto a hydroxyapatite or other ion-exchange matrix column, and eluting the protein using mild salt treatment. The F, G, and M proteins, formulated as immunogenic compns., are safe and highly immunogenic and protect relevant animal models against disease caused by respiratory syncytial virus infection. An example is provided illustrating the immunogenicity of the RSV subunit prepn. in cotton rats. Cotton rats were immunized with the RSV subunit preps. formulated either with Alum or ISCOM (Iscomatrix). Blood samples were obtained and analyzed for anti-fusion and neutralizing antibodies after the appropriate procedures. In addn. to strong anti-fusion and neutralizing antibodies induction, complete protection against the RSV infection was obtained (except in 1 rat), in both the upper and lower respiratory tracts.

IC ICM A61K039-12
 ICS A61K039-155; C12N007-00; C12N007-01; C12P021-08; C07K001-00;
 G01N033-561; C07K016-00; C12Q001-70

NCL 424211100

CC 15-2 (Immunochemistry)

Section cross-reference(s): 16, 63

ST subunit **vaccine** respiratory syncytial virus

IT Immunostimulants

(**adjuvants**, ISCOMs; subunit respiratory syncytial virus
 prepn.)

IT Immunostimulants

(**adjuvants**; subunit respiratory syncytial virus prepn.)

IT Anion exchange chromatography

B cell (lymphocyte)

Detergents

Disease models

Human

Human parainfluenza virus

Human parainfluenza virus 1

Human parainfluenza virus 2

Human parainfluenza virus 3

Hybridoma

Immunomodulators

Ion exchange chromatography

Ion exchange chromatography

Mouse

Primates

Respiratory syncytial virus

Sigmodon hispidus hispidus

Test kits

Vaccines

(subunit respiratory syncytial virus prepn.)

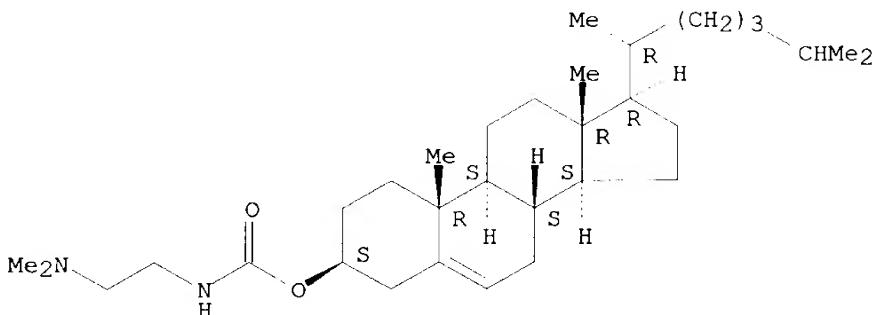
IT 1305-62-0, Calcium hydroxide, biological studies 3700-67-2 7784-30-7,
 Aluminum phosphate 10103-46-5, Calcium phosphate 20427-58-1, Zinc
 hydroxide 21645-51-2, Aluminum hydroxide, biological studies
 53678-77-6, Muramyl dipeptide 66594-14-7, Quil A **137056-72-5**,
 DC-chol 141256-04-4, QS21
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (subunit respiratory syncytial virus prep.)

IT **137056-72-5**, DC-chol
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (subunit respiratory syncytial virus prep.)

RN 137056-72-5 HCPLUS

CN Cholest-5-en-3-ol (3.β.)-, [2-(dimethylamino)ethyl]carbamate (9CI) (CA
 INDEX NAME)

Absolute stereochemistry.



L27 ANSWER 2 OF 28 HCPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:594655 HCPLUS
 DOCUMENT NUMBER: 137:159311
 TITLE: Polymer combinations that result in stabilized
 aerosols for gene delivery to the lungs
 INVENTOR(S): Zou, Yiyu; Perez-Soler, Roman
 PATENT ASSIGNEE(S): Board of Regents, The University of Texas System, USA
 SOURCE: PCT Int. Appl., 136 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002060412	A2	20020808	WO 2002-US2909	20020201
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,			

BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
US 2002187105 A1 20021212 US 2002-61444 20020201

PRIORITY APPLN. INFO.: US 2001-266174P P 20010201

AB The use of non-viral delivery of therapeutically effective compns. through aerosols for therapy or research purpose has been limited by low efficiency mainly caused by an inefficient delivery system and destruction of formulation (gene and/or delivery system) by aerosol shearing power. This invention develops formulations that are established polymer combination formulations. The formulations are highly efficient in delivering genes in vivo through aerosols and are able to protect the delivered gene from the destruction by aerosol shearing power.

IC ICM A61K009-12

CC 63-5 (Pharmaceuticals)

Section cross-reference(s): 15

IT Antiasthmatics

Antibiotics

Antitumor agents

Asthma

Chemotherapy

Cystic fibrosis

Emphysema

Gene therapy

Genetic vectors

Lung

Lung, neoplasm

Particle size distribution

Pneumonia

Stabilizing agents

Trachea (anatomical)

Transformation, genetic

Tuberculosis

Tuberculostatics

Vaccines

(polymer combinations that result in stabilized aerosols for gene delivery to the lungs)

IT 25104-18-1, Polylysine 38000-06-5, Polylysine 104162-48-3, Dotma 137056-72-5, Dc-chol 153312-64-2, Dmrie 153985-22-9, DORIE 165673-46-1 173738-32-4 216165-62-7 282533-23-7, DOSPA
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PYP (Physical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(polymer combinations that result in stabilized aerosols for gene delivery to the lungs)

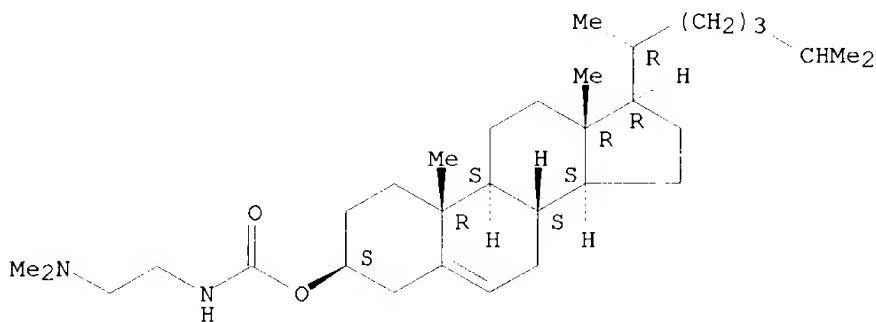
IT 137056-72-5, Dc-chol
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PYP (Physical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(polymer combinations that result in stabilized aerosols for gene delivery to the lungs)

RN 137056-72-5 HCAPLUS

CN Cholest-5-en-3-ol (3. β .)-, [2-(dimethylamino)ethyl]carbamate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

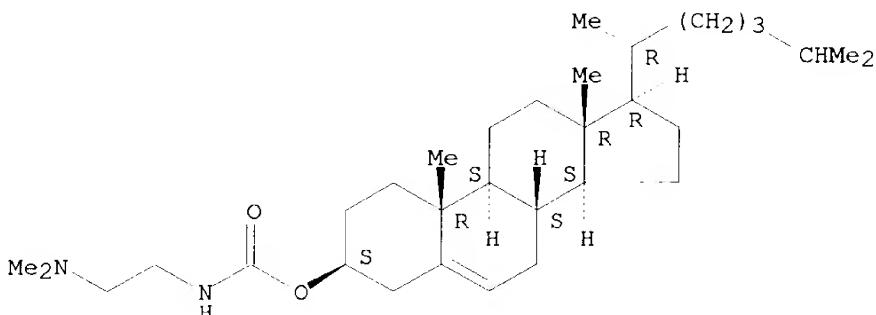


L27 ANSWER 3 OF 28 HCPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:350501 HCPLUS
 DOCUMENT NUMBER: 138:126870
 TITLE: In vivo immune responses induced by CpG oligonucleotides encapsulated in sterically stabilized cationic liposomes
 AUTHOR(S): Gursel, I.; Gursel, M.; Klinman, D. M.
 CORPORATE SOURCE: Division of Viral Products, Center for Biologics and Evaluation Research, Food and Drug Administration, Bethesda, MD, 20892, USA
 SOURCE: Proceedings - 28th International Symposium on Controlled Release of Bioactive Materials and 4th Consumer & Diversified Products Conference, San Diego, CA, United States, June 23-27, 2001 (2001), Volume 2, 1057-1058. Controlled Release Society: Minneapolis, Minn.
 CODEN: 69CNY8
 DOCUMENT TYPE: Conference
 LANGUAGE: English
 AB CpG oligonucleotides encapsulated in stabilized cationic liposomes were produced. When administered in vivo, these agents induced a strong Th-1 biased immune response against a co-administered protein antigen. In the absence of antigen, these agents induced a strong innate immune response that protected the host from lethal pathogen challenge.
 CC 63-6 (Pharmaceuticals)
 IT Immunostimulants
 (adjuvants; in vivo immune responses induced by CpG oligonucleotides encapsulated in sterically stabilized cationic liposomes)
 IT Immunity
 Vaccines
 (in vivo immune responses induced by CpG oligonucleotides encapsulated in sterically stabilized cationic liposomes)
 IT 57-88-5, Cholesterol, biological studies 2462-63-7, Dope
137056-72-5 182280-69-9, PEG-PE
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (in vivo immune responses induced by CpG oligonucleotides encapsulated in sterically stabilized cationic liposomes)
 IT **137056-72-5**
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (in vivo immune responses induced by CpG oligonucleotides encapsulated in sterically stabilized cationic liposomes)

RN 137056-72-5 HCAPLUS

CN Cholest-5-en-3-ol (3. β .)-, [2-(dimethylamino)ethyl]carbamate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 4 OF 28 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:275825 HCAPLUS

DOCUMENT NUMBER: 136:299680

TITLE: **Vaccine** composition comprising an antigen, a cationic lipid and an immunostimulatory oligonucleotide

INVENTOR(S): Haensler, Jean; Hurpin, Christian Marcel

PATENT ASSIGNEE(S): Aventis Pasteur, Fr.

SOURCE: PCT Int. Appl., 17 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002028428	A2	20020411	WO 2001-FR3098	20011008
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
FR 2814958	A1	20020412	FR 2000-12808	20001006
AU 2001095673	A5	20020415	AU 2001-95673	20011008

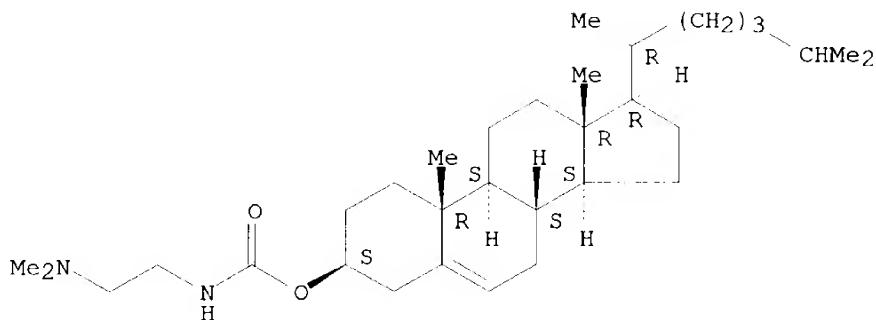
PRIORITY APPLN. INFO.:

FR 2000-12808 A 20001006
WO 2001-FR3098 W 20011008AB The invention concerns a **vaccine** compn. comprising at least an antigen, a cationic lipid and an immunostimulatory oligonucleotide. Said **vaccine** compn. is particularly designed to induce an immune

response of the **Th1** type and a cytotoxic T response when administered by parenteral delivery, and to induce a **Th2** type immune response when delivered through the mucous system. Said compn. is of particular interest when the cationic lipid is DC chol. A 0.2 mL **vaccine** contained monovalent **influenza** virus corresponding to 5 .mu.g of HA, 200 .mu.g, D Chol suspension (prepn. given) 200.mu.g, and oligonucleotide 3Db(S) 50 .mu.g. The amt. of IgG2a antibody produced after injection of **vaccines** to guinea pigs was higher than the amt. after injection of the **vaccines** contg. either **adjuvant**.

IC ICM A61K039-21
 CC 63-3 (Pharmaceuticals)
 ST **vaccine** antigen cationic lipid immunostimulant oligonucleotide
 IT Immunoglobulins
 RL: FMU (Formation, unclassified); FORM (Formation, nonpreparative)
 (A; **vaccine** compn. comprising antigen, cationic lipid and
 immunostimulatory oligonucleotide)
 IT Immunoglobulins
 RL: FMU (Formation, unclassified); FORM (Formation, nonpreparative)
 (G1; **vaccine** compn. comprising antigen, cationic lipid and
 immunostimulatory oligonucleotide)
 IT Immunoglobulins
 RL: FMU (Formation, unclassified); FORM (Formation, nonpreparative)
 (G2a; **vaccine** compn. comprising antigen, cationic lipid and
 immunostimulatory oligonucleotide)
 IT **Vaccines**
 (**influenza**; **vaccine** compn. comprising antigen,
 cationic lipid and immunostimulatory oligonucleotide)
 IT **Vaccines**
 (parenteral; **vaccine** compn. comprising antigen, cationic
 lipid and immunostimulatory oligonucleotide)
 IT Immunostimulants
 Influenza virus
 Mucous membrane
 (**vaccine** compn. comprising antigen, cationic lipid and
 immunostimulatory oligonucleotide)
 IT Antigens
 Lipids, biological studies
 Oligonucleotides
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (**vaccine** compn. comprising antigen, cationic lipid and
 immunostimulatory oligonucleotide)
 IT 137056-72-5, DC chol. 166023-21-8 408375-63-3
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (**vaccine** compn. comprising antigen, cationic lipid and
 immunostimulatory oligonucleotide)
 IT 137056-72-5, DC chol. 166023-21-8
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (**vaccine** compn. comprising antigen, cationic lipid and
 immunostimulatory oligonucleotide)
 RN 137056-72-5 HCAPLUS
 CN Cholest-5-en-3-ol (3.beta.)-, [2-(dimethylamino)ethyl]carbamate (9CI) (CA
 INDEX NAME)

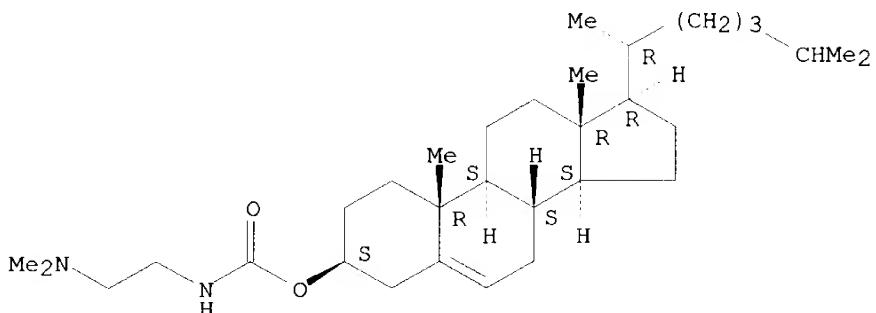
Absolute stereochemistry.



RN 166023-21-8 HCPLUS

CN Cholest-5-en-3-ol (3.β.)-, [2-(dimethylamino)ethyl]carbamate, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.



HCl

L27 ANSWER 5 OF 28 HCPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:275824 HCPLUS

DOCUMENT NUMBER: 136:299679

TITLE: Pharmaceutical composition for immunization against AIDS

INVENTOR(S): Haensler, Jean; Dalencon, Francois

PATENT ASSIGNEE(S): Aventis Pasteur, Fr.

SOURCE: PCT Int. Appl., 30 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002028427	A2	20020411	WO 2001-FR3096	20011008
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,			

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
 PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
 US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 FR 2814958 A1 20020412 FR 2000-12808 20001006
 AU 2001095671 A5 20020415 AU 2001-95671 20011008
 PRIORITY APPLN. INFO.: FR 2000-12808 A 20001006
 WO 2001-FR3096 W 20011008

AB The invention relates to the field of pharmaceutical compns. for use in immunization against HIV-related infections, and concerns a pharmaceutical compn. comprising at least a HIV antigen and DCchol. Such a compn. has proved to be particularly interesting for inducing through the mucous system IgG and IgA specific to the administered antigen. The inventive pharmaceutical compn., in a particular advantageous manner, can be in the form of liposome suspension, or emulsion. A pharmaceutical compn. for use against HIV-1 contained glycoprotein gp 160env 25, oligonucleotide 3DB(S) 50, and DCchol hydrochloride emulsion (prepn. given) 200 .mu.g. The compn. was administered rectally to guinea pigs and anti-gp 160env IgG was detd. There was a synergism between the oligonucleotide and DCchol as compared with the controls.

IC ICM A61K039-21

CC 63-3 (Pharmaceuticals)

ST pharmaceutical **vaccine** immunization AIDS DCchol glycoprotein

IT **Vaccines**

(rectal; pharmaceutical compn. for immunization against AIDS)

IT 137056-72-5, DCchol. 166023-21-8

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(pharmaceutical compn. for immunization against AIDS)

IT 137056-72-5, DCchol. 166023-21-8

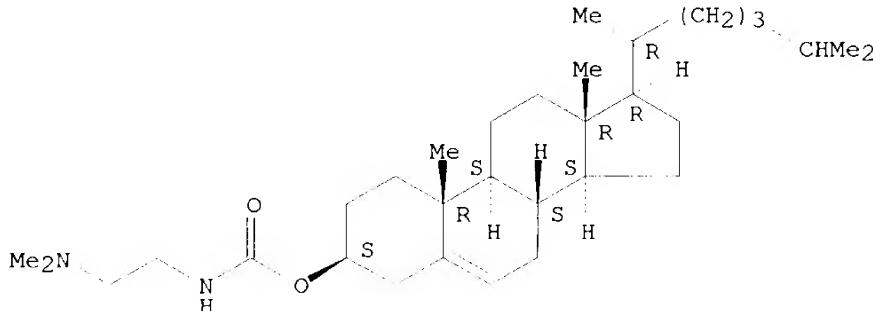
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(pharmaceutical compn. for immunization against AIDS)

RN 137056-72-5 HCAPLUS

CN Cholest-5-en-3-ol (3.beta.)-, [2-(dimethylamino)ethyl]carbamate (9CI) (CA INDEX NAME)

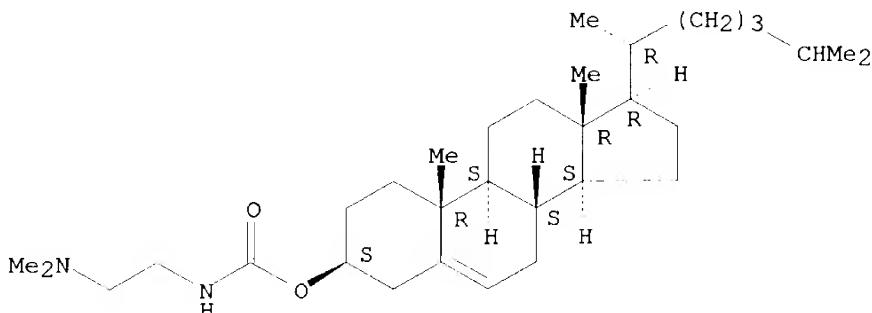
Absolute stereochemistry.



RN 166023-21-8 HCPLUS

CN Cholest-5-en-3-ol (3. β .)-, [2-(dimethylamino)ethyl]carbamate, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.



HCl

L27 ANSWER 6 OF 28 HCPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:71901 HCPLUS

DOCUMENT NUMBER: 136:133603

TITLE: Immunological combinations for prophylaxis and therapy of Helicobacter pylori infection

INVENTOR(S): Guy, Bruno; Haensler, Jean

PATENT ASSIGNEE(S): Merieux Oravax, Fr.

SOURCE: PCT Int. Appl., 37 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002005845	A1	20020124	WO 2001-EP9031	20010704
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			

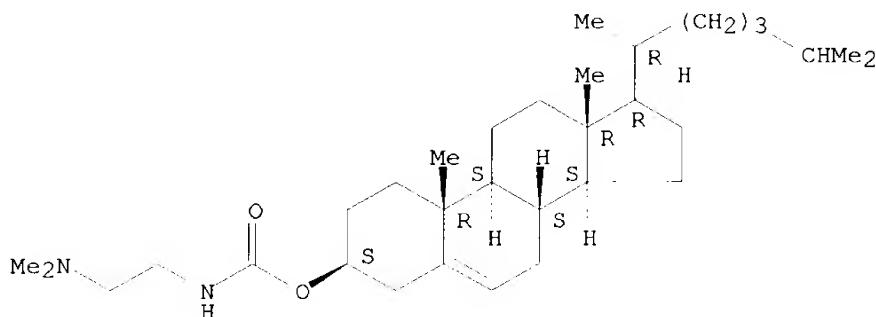
PRIORITY APPLN. INFO.: EP 2000-420148 A 20000705

AB The invention relates to multivalent compns. for preventing or treating Helicobacter infections. Multivalent Helicobacter component compns. useful in prophylaxis comprises at least two, preferably three components, that are selected from AlpA, catalase, urease, 525 protease and 76K proteins. Multivalent compns. useful in therapy include in particular 76K

+ catalase + 525 protease, urease + 76K + catalase + 525 protease, AlpA + 76K + catalase + 525 protease, AlpA + 76K and AlpA + catalase.

IC ICM A61K039-106
ICS A61P031-04
CC 15-2 (Immunochemistry)
Section cross-reference(s): 3, 63
ST Helicobacter pylori multiple antigen **vaccine**: AlpA catalase urease 525 protease 76K protein
IT Immunostimulants
(**adjuvants**; formulations contg. multiple antigenic components for prophylaxis and therapy of Helicobacter pylori infection)
IT Animal
Helicobacter
Helicobacter pylori
Human
Mammalia
Vaccines
(formulations contg. multiple antigenic components for prophylaxis and therapy of Helicobacter pylori infection)
IT T cell (lymphocyte)
(helper cell/inducer, **TH1**, immune response; formulations contg. multiple antigenic components for prophylaxis and therapy of Helicobacter pylori infection)
IT DNA
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(**vaccine**; formulations contg. multiple antigenic components for prophylaxis and therapy of Helicobacter pylori infection)
IT 9001-05-2, Catalase 9002-13-5, Urease **137056-72-5**, DC-Chol
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(formulations contg. multiple antigenic components for prophylaxis and therapy of Helicobacter pylori infection)
IT **137056-72-5**, DC-Chol
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(formulations contg. multiple antigenic components for prophylaxis and therapy of Helicobacter pylori infection)
RN 137056-72-5 HCAPLUS
CN Cholest-5-en-3-ol (3. β .)-, [2-(dimethylamino)ethyl]carbamate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT:

5

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 7 OF 28 HCPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2001:816486 HCPLUS
 DOCUMENT NUMBER: 135:356751
 TITLE: Immunizing against HIV infection
 INVENTOR(S): Rovinski, Benjamin; Tartaglia, James; Cao, Shi-Xian;
 Persson, Roy; Klein, Michel H.
 PATENT ASSIGNEE(S): Aventis Pasteur Limited, Can.
 SOURCE: PCT Int. Appl., 39 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001082962	A2	20011108	WO 2001-CA577	20010425
WO 2001082962	A3	20020321		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1280551	A2	20030205	EP 2001-927532	20010425
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2002051770	A1	20020502	US 2001-842883	20010427
PRIORITY APPLN. INFO.:			US 2000-200011P P	20000427
			WO 2001-CA577 W	20010425

AB A virus neutralizing level of antibodies to a primary HIV isolate is generated in a host by a prime-boost administration of antigens. The primary antigen is a DNA mol. encoding an envelop glycoprotein of a primary isolate of HIV-1 while the boosting antigen is either a non-infectious, non-replicating HIV-like particle having the envelope glycoprotein of a primary isolate of HIV-1 or an attenuated viral vector expressing an envelope glycoprotein of a primary isolate of HIV-1.
 IC ICM A61K039-12
 CC 15-2 (Immunochemistry)
 Section cross-reference(s): 3
 ST HIV1 envelope glycoprotein viral vector **vaccine**
 IT Immunostimulants
 (adjuvants; viral vector encoding HIV-1 envelope glycoproteins for immunizing against HIV infection)
 IT Animal cell
 (mammalian; viral vector encoding HIV-1 envelope glycoproteins for immunizing against HIV infection)
 IT AIDS (disease)
 DNA sequences
 Human immunodeficiency virus
 Human immunodeficiency virus 1
 Molecular cloning

Plasmids

Protein sequences

Vaccines

(viral vector encoding HIV-1 envelope glycoproteins for immunizing against HIV infection)

IT **137056-72-5**, DC-chol 307555-09-5, RIBI

RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(genetic promoter; viral vector encoding HIV-1 envelope glycoproteins for immunizing against HIV infection)

IT **137056-72-5**, DC-chol

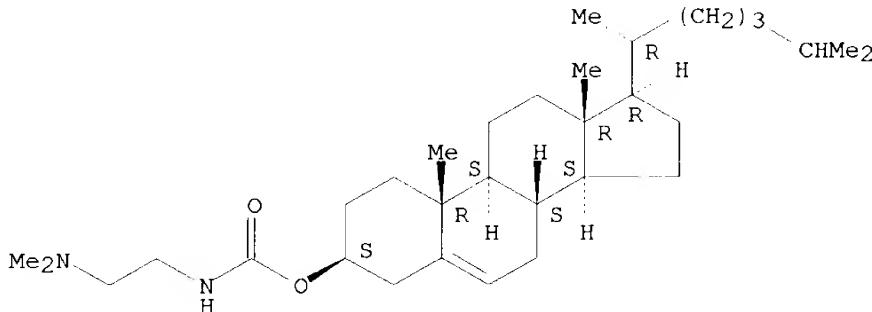
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(genetic promoter; viral vector encoding HIV-1 envelope glycoproteins for immunizing against HIV infection)

RN 137056-72-5 HCPLUS

CN Cholest-5-en-3-ol (3. β .)-, [2-(dimethylamino)ethyl]carbamate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L27 ANSWER 8 OF 28 HCPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:792220 HCPLUS

DOCUMENT NUMBER: 135:330483

TITLE: Subunit respiratory syncytial virus **vaccine** preparation

INVENTOR(S): Cates, George A.; Sanhueza, Sonia E.; Oomen, Raymond P.; Klein, Michel H.

PATENT ASSIGNEE(S): Aventis Pasteur Ltd., Can.

SOURCE: U.S., 16 pp., Cont.-in-part of U.S. 6,020,182.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6309649	B1	20011030	US 1999-214605	19990503
US 6020182	A	20000201	US 1996-679060	19960712
WO 9802457	A1	19980122	WO 1997-CA497	19970711

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,

DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ,
 LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL,
 PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ,
 VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR,
 GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,
 GN, ML, MR, NE, SN, TD, TG

US 2002136739 A1 20020926 US 2001-950655 20010913

PRIORITY APPLN. INFO.: US 1996-679060 A2 19960712
 WO 1997-CA497 W 19970711
 US 1999-214605 A2 19990503

AB The fusion (F) protein, attachment (G) protein and matrix (M) protein of respiratory syncytial virus (RSV) are isolated and purified from respiratory syncytial virus by mild detergent extrn. of the proteins from concd. virus, loading the protein onto a hydroxyapatite or other ion-exchange matrix column and eluting the protein using mild salt treatment. The F, G and M proteins, formulated as immunogenic compns., are safe and highly immunogenic and protect relevant animal models against decreased caused by respiratory syncytial virus infection.

IC ICM A61K039-155
 ICS C12N007-02; C12N007-04; A23J001-00

NCL 424211100

CC 15-2 (Immunochemistry)

ST **vaccine** respiratory syncytial virus fusion matrix attachment protein

IT Proteins, specific or class
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (F; subunit respiratory syncytial virus **vaccine** prepn.
 comprising fusion (F), attachment (G), and matrix (M) proteins)

IT Proteins, specific or class
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (M (matrix); subunit respiratory syncytial virus **vaccine**
 prepn. comprising fusion (F), attachment (G), and matrix (M) proteins)

IT Immunostimulants
 (**adjuvants**, ISCOMs; as **adjuvant** in respiratory syncytial virus **vaccine** prepn.)

IT Immunostimulants
 (**adjuvants**; subunit respiratory syncytial virus **vaccine** prepn. comprising fusion (F), attachment (G), and matrix (M) proteins)

IT Human parainfluenza virus 1
 Human parainfluenza virus 2
 Human parainfluenza virus 3
 (as addnl. immunogen in respiratory syncytial virus **vaccine** prepn.)

IT Glycolipids
 Lipoproteins
 Polyphosphazenes
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (as **adjuvant** in respiratory syncytial virus **vaccine** prepn.)

IT Proteins, specific or class
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (attachment; subunit respiratory syncytial virus **vaccine**
 prepn. comprising fusion (F), attachment (G), and matrix (M) proteins)

IT Toxins
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (bacterial; as **adjuvant** in respiratory syncytial virus
vaccine prepn.)

IT Antibodies
 RL: BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)
 (neutralizing; subunit respiratory syncytial virus **vaccine**
 prepn. comprising fusion (F), attachment (G), and matrix (M) proteins)

IT Amino acids, biological studies
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (octadecyl esters; as **adjuvant** in respiratory syncytial virus
vaccine prepn.)

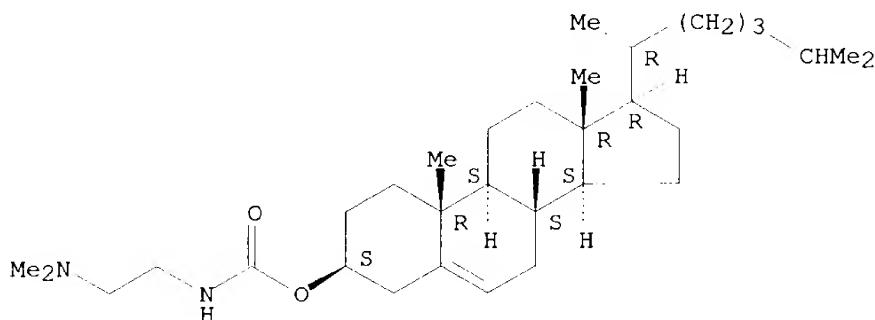
IT Respiratory syncytial virus
Vaccines
 (subunit respiratory syncytial virus **vaccine** prepn.
 comprising fusion (F), attachment (G), and matrix (M) proteins)

IT 3700-67-2, Dimethyldioctadecylammonium bromide 7784-30-7, Aluminum phosphate 10103-46-5, Calcium phosphate 20427-58-1, Zinc hydroxide 21645-51-2, Aluminum hydroxide, biological studies 53678-77-6, Muramyl dipeptide 66594-14-7, Quil A **137056-72-5**, DC-Chol 141256-04-4, QS 21
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (as **adjuvant** in respiratory syncytial virus **vaccine**
 prepn.)

IT **137056-72-5**, DC-Chol
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (as **adjuvant** in respiratory syncytial virus **vaccine**
 prepn.)

RN 137056-72-5 HCPLUS
 CN Cholest-5-en-3-ol (3. β .)-, [2-(dimethylamino)ethyl]carbamate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 69 THERE ARE 69 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 9 OF 28 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:791879 HCAPLUS

DOCUMENT NUMBER: 135:335117

TITLE: Immunological **adjuvants** containing **Hemagglutinating** virus-containing charged liposomes, and manufacture thereof

INVENTOR(S): Honda, Kazuo; Kaneda, Yasushi; Shiozaki, Koichi

PATENT ASSIGNEE(S): Chemo-Sero-Therapeutic Research Institute, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001302541	A2	20011031	JP 2000-128670	20000428
PRIORITY APPLN. INFO.:			JP 2000-128670	20000428

AB The invention relates to an immunol. **adjuvant** having immunostimulating effect for low-immunogenic peptide, wherein the **adjuvant** is a charged liposome consisting of a Sendai virus (**Hemagglutinating** virus of Japan, HVJ virus) or its envelop glycoprotein, and a lipid component. A HIV-V3 peptide-contg. anionic liposome was prepd. from dimethylaminoethane carbamyl cholesterol, phosphatidylethanolamine, egg yolk phosphatidylcholine, cholesterol, inactivated HVJ virus, and HIV-V3 peptide, and its booster effect was examd. in guinea pigs primarily immunized with HIV-HBc (hepatitis B virus core antigen).

IC ICM A61K039-39

ICS A61K009-127; A61K038-00; A61K039-00; A61K039-21; C07K014-115

CC 63-3 (Pharmaceuticals)

Section cross-reference(s): 15

ST **Hemagglutinating** virus charged liposome **vaccine**
adjuvant; HIV V3 peptide Sendai virus liposome **vaccine**
adjuvant

IT **Vaccines**

(AIDS; charged liposomes contg. **Hemagglutinating** virus and lipids and antigens as immunol. **adjuvants**)

IT Envelope proteins

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(E glycoprotein; charged liposomes contg. **Hemagglutinating**
virus envelope proteins and lipids as immunol. **adjuvants**)

IT Proteins, specific or class
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(F; charged liposomes contg. **Hemagglutinating** virus envelope
proteins and lipids as immunol. **adjuvants**)

IT Peptides, biological studies
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
(Uses)
(HIV-V3 peptides; charged liposomes contg. **Hemagglutinating**
virus and lipids and antigens as immunol. **adjuvants**)

IT Glycoproteins, specific or class
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(HN (**hemagglutinin**-neuraminidase); charged liposomes contg.
Hemagglutinating virus envelope proteins and lipids as immunol.
adjuvants)

IT Human immunodeficiency virus 1
(V3 peptide; charged liposomes contg. **Hemagglutinating** virus
and lipids and antigens as immunol. **adjuvants**)

IT Immunostimulants
(**adjuvants**; charged liposomes contg. **Hemagglutinating**
virus and lipids as immunol. **adjuvants**)

IT Epitopes
Vaccines
(charged liposomes contg. **Hemagglutinating** virus and lipids
and antigens as immunol. **adjuvants**)

IT Antigens
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(charged liposomes contg. **Hemagglutinating** virus and lipids
and antigens as immunol. **adjuvants**)

IT Sendai virus
(charged liposomes contg. **Hemagglutinating** virus and lipids
as immunol. **adjuvants**)

IT Lipids, biological studies
Phosphatidylcholines, biological studies
Phosphatidylethanolamines, biological studies
Phosphatidylserines
Sphingomyelins
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(charged liposomes contg. **Hemagglutinating** virus and lipids
as immunol. **adjuvants**)

IT Drug delivery systems
(liposomes; charged liposomes contg. **Hemagglutinating** virus
and lipids as immunol. **adjuvants**)

IT Anti-AIDS agents
(**vaccines**; charged liposomes contg. **Hemagglutinating**
virus and lipids and antigens as immunol. **adjuvants**)

IT 57-88-5, Cholesterol, biological studies 104162-48-3,
N-[1-(2,3-Dioleyloxy) propyl]-N,N,N-trimethylammonium chloride
131897-06-8, N-(.alpha.-Trimethylammonioacetyl)-didodecyl-D-glutamate
chloride **137056-72-5** 182919-20-6
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(charged liposomes contg. **Hemagglutinating** virus and lipids
as immunol. **adjuvants**)

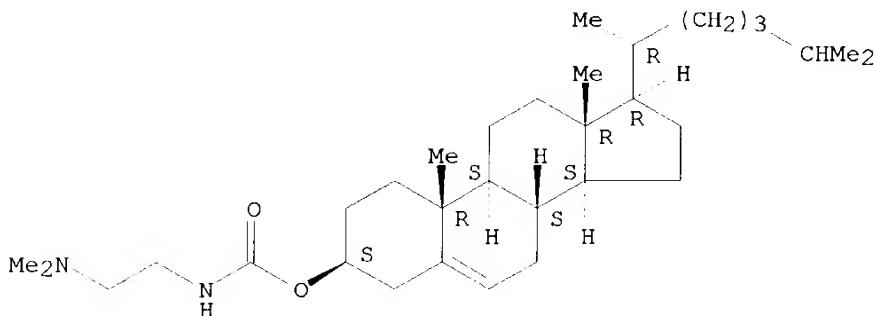
IT **137056-72-5**

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (charged liposomes contg. **Hemagglutinating** virus and lipids
 as immunol. **adjuvants**)

RN 137056-72-5 HCPLUS

CN Cholest-5-en-3-ol (3. β .)-, [2-(dimethylamino)ethyl]carbamate (9CI) (CA
 INDEX NAME)

Absolute stereochemistry.



L27 ANSWER 10 OF 28 HCPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:214941 HCPLUS

DOCUMENT NUMBER: 134:256860

TITLE: Genetic liposomal **vaccines** containing
 oligosaccharides on the surface

INVENTOR(S): Mizuochi, Tsugio; Kojima, Naoya; Yasuda, Atsushi

PATENT ASSIGNEE(S): Tokai University, Japan; Nippon Zeon Co., Ltd.

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001081044	A2	20010327	JP 1999-259717	19990914
PRIORITY APPLN. INFO.:			JP 1999-259717	19990914
AB This invention relates to liposomes which contain nucleic acids and oligosaccharides bonded to antigen-presenting cell derived lectin. The liposomes provide adjuvant activities and are highly efficient in inducing cell-mediated immunity when administered to a host. A liposomal vaccine was prep'd. contg. mannopentaose/dipalmitoylphosphatidylethanolamine, dipalmitoylphosphatidylcholine, and pCMV-.beta.Galplasmid.				
IC ICM A61K039-00 ICS A61K009-127; A61K031-711; A61P037-04				
CC 63-6 (Pharmaceuticals)				
ST genetic liposome vaccine oligosaccharide lectin				
IT Gene therapy				
Vaccines (genetic liposomal vaccines contg. oligosaccharides on surface)				

IT Agglutinins and Lectins
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (genetic liposomal **vaccines** contg. oligosaccharides on
 surface)

IT DNA
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (genetic liposomal **vaccines** contg. oligosaccharides on
 surface)

IT Nucleic acids
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (genetic liposomal **vaccines** contg. oligosaccharides on
 surface)

IT Oligosaccharides, biological studies
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (genetic liposomal **vaccines** contg. oligosaccharides on
 surface)

IT Drug delivery systems
 (liposomes; genetic liposomal **vaccines** contg.
 oligosaccharides on surface)

IT Plasmids
 (pCMV-.beta.Gal; genetic liposomal **vaccines** contg.
 oligosaccharides on surface)

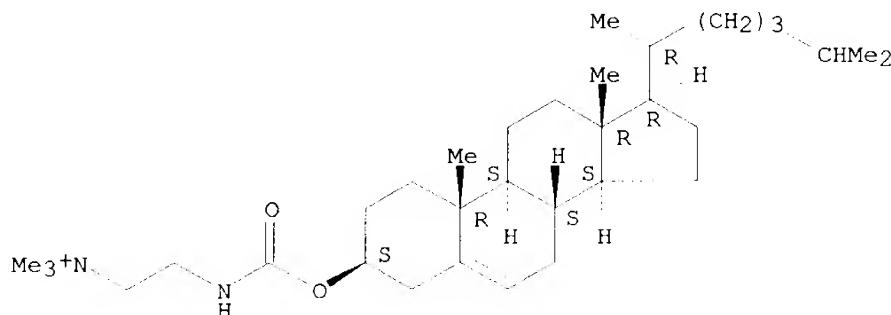
IT 57-88-5D, Cholesterol, glycolipids contg. 2644-64-6D,
 Dipalmitoylphosphatidylcholine, glycolipids contg. 5681-36-7D,
 Dipalmitoylphosphatidylethanolamine, glycolipids contg. 34141-02-1D,
 glycolipids contg. 71246-55-4D, glycolipids contg. 112828-69-0D,
 glycolipids contg. **129583-07-9D**, glycolipids contg.
137056-72-5D, 3.beta.-[N-[2-(N,N-Dimethylamino)ethyl]carbamoyl]cho-
 lesterol, glycolipids contg. 149952-31-8D, glycolipids contg.
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (genetic liposomal **vaccines** contg. oligosaccharides on
 surface)

IT **129583-07-9D**, glycolipids contg. **137056-72-5D**,
 3.beta.-[N-[2-(N,N-Dimethylamino)ethyl]carbamoyl]cholesterol, glycolipids
 contg.
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (genetic liposomal **vaccines** contg. oligosaccharides on
 surface)

RN 129583-07-9 HCAPLUS

CN Cholest-5-en-3-ol (3.beta.)-, ester with 2-(carboxyamino)-N,N,N-
 trimethylethanaminium (9CI) (CA INDEX NAME)

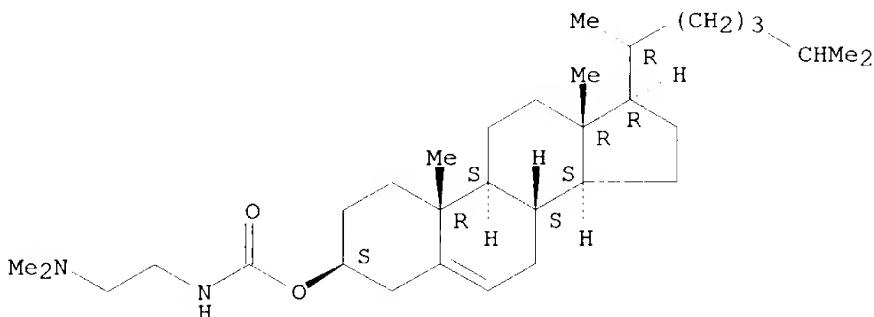
Absolute stereochemistry.



RN 137056-72-5 HCPLUS

CN Cholest-5-en-3-ol (3. β .)-, [2-(dimethylamino)ethyl]carbamate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L27 ANSWER 11 OF 28 HCPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:207382 HCPLUS

DOCUMENT NUMBER: 135:127008

TITLE: Formulations of single or multiple *Helicobacter pylori* antigens with DC-Chol **adjuvant** induce protection by the systemic route in mice. Optimal prophylactic combinations are different from therapeutic ones

AUTHOR(S): Sanchez, V.; Gimenez, S.; Haensler, J.; Geoffroy, C.; Rokbi, B.; Seguin, D.; Lissolo, L.; Harris, B.; Rizvi, F.; Kleanthous, H.; Monath, T.; Cadoz, M.; Guy, B.

CORPORATE SOURCE: Research Department, Campus Mérieux, X2, Aventis Pasteur, Marcy l'Etoile, 69280, Fr.

SOURCE: FEMS Immunology and Medical Microbiology (2001), 30(2), 157-165

CODEN: FIMIEV; ISSN: 0928-8244
PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

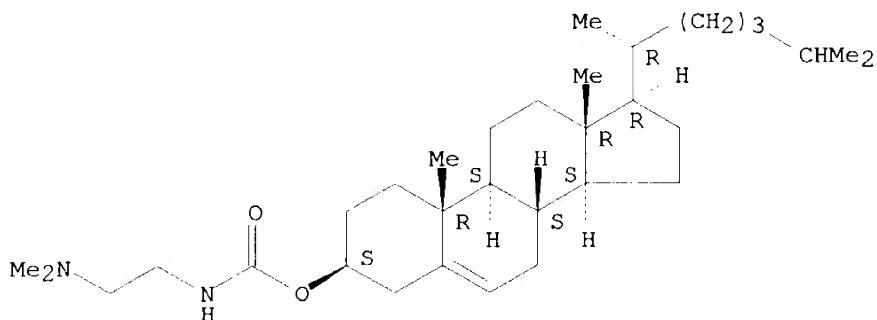
LANGUAGE: English

AB The ability to induce a protective response against *Helicobacter pylori* infection has been investigated by systemic immunization of mice with urease formulated with the cationic lipid DC-Chol. This compd. acts both as a formulating agent and as an **adjuvant** and induces a balanced Th1/Th2 response shown to be more effective for protection in our previous studies. Urease-DC Chol induced a significant protection in prophylaxis but not in therapeutic immunization. The protection level was between 1.5 and 2 log redn. of bacterial d. measured by quant. culture compared to unimmunized-infected mice. In parallel, the protective efficacy of other *H. pylori* antigens formulated in a similar way and administered with DC-Chol was tested. These antigens were tested alone or in combination in prophylactic and therapeutic regimens. Some combinations of antigens induced a better prophylactic or therapeutic activity than urease alone (0.5-1.5 log further redn. in prophylaxis and therapy resp., P<0.05). The combinations that induced the best protection were different in prophylaxis and therapy. In conclusion, DC-Chol provides a convenient and efficient method to formulate different antigens

even when they are present in non-compatible buffers initially. Moreover, the results obtained in protection against *H. pylori* with such formulations should lead the way to future clin. trials.

CC 63-3 (Pharmaceuticals)
Section cross-reference(s): 15
ST cholesterol deriv **adjuvant** *Helicobacter* antigen **vaccine**
IT Immunostimulants
 (**adjuvants**; prophylactic and therapeutic formulations of *Helicobacter pylori* antigens with DC-Chol **adjuvant** for protection against *H. pylori* infection)
IT Drug delivery systems
 (liposomes; prophylactic and therapeutic formulations of *Helicobacter pylori* antigens with DC-Chol **adjuvant** for protection against *H. pylori* infection)
IT *Helicobacter pylori*
 Vaccines
 (prophylactic and therapeutic formulations of *Helicobacter pylori* antigens with DC-Chol **adjuvant** for protection against *H. pylori* infection)
IT Antigens
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (prophylactic and therapeutic formulations of *Helicobacter pylori* antigens with DC-Chol **adjuvant** for protection against *H. pylori* infection)
IT **Immunization**
 (**vaccination**; prophylactic and therapeutic formulations of *Helicobacter pylori* antigens with DC-Chol **adjuvant** for protection against *H. pylori* infection)
IT 9002-13-5, Urease **137056-72-5**, DC-Chol
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (prophylactic and therapeutic formulations of *Helicobacter pylori* antigens with DC-Chol **adjuvant** for protection against *H. pylori* infection)
IT **137056-72-5**, DC-Chol
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (prophylactic and therapeutic formulations of *Helicobacter pylori* antigens with DC-Chol **adjuvant** for protection against *H. pylori* infection)
RN 137056-72-5 HCPLUS
CN Cholest-5-en-3-ol (3. β .)-, [2-(dimethylamino)ethyl]carbamate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 12 OF 28 HCPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:167832 HCPLUS

DOCUMENT NUMBER: 134:212748

TITLE: Lipid-nucleic acid compositions for stimulating cytokine secretion and inducing an immune response

INVENTOR(S): Semple, Sean C.; Harasym, Troy O.; Klimuk, Sandra K.; Kojic, Ljiljana D.; Bramson, Jonathan L.; Mui, Barbara; Hope, Michael J.

PATENT ASSIGNEE(S): Inex Pharmaceuticals Corp., Can.

SOURCE: PCT Int. Appl., 94 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

TABLET ACT. N.M. COUNT
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001015726	A2	20010308	WO 2000-CA1013	20000828
WO 2001015726	A3	20010726		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2000068139	A5	20010326	AU 2000-68139	20000828
BR 2000013834	A	20020423	BR 2000-13834	20000828
EP 1212085	A2	20020612	EP 2000-956004	20000828
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				

PRIORITY APPLN. INFO.: US 2000-176406P P 20000113
US 1999-151211P P 19990826
WO 2000-CA1013 W 20000828

AB Lipid-nucleic acid particles can provide therapeutic benefits, even when the nucleic acid is not complementary to coding sequences in target cells. It has been found that lipid-nucleic acid particles, including those contg. non-sequence specific oligodeoxynucleotides, can be used to

stimulate cytokine secretion, thus enhancing the overall immune response of a treated **mammal**. Further, immune response to specific target antigens can be induced by administration of an antigenic mol. in assocn. with lipid particles contg. non-sequence specific oligodeoxynucleotides. The nucleic acid which is included in the lipid-nucleic acid particle can be a phosphodiester (i.e., an oligodeoxynucleotide consisting of nucleotide residues joined by phosphodiester linkages) or a modified nucleic acid which includes phosphorothioate or other modified linkages, and may suitably be one which is non-complementary to the human genome, such that it acts to provide immunostimulation in a manner which is independent of conventional base-pairing interactions between the nucleic acid and nucleic acids of the treated **mammal**. In particular, the nucleic acid may suitably contain an immune-stimulating motif such as a CpG motif, or an immune stimulating palindromic sequence. The cationic lipid included in the nucleic acid particles may be suitably selected from among DODAP, DODMA, DMDMA, DOTAP, DC-Chol, DDAB, DODAC, DMRIE, DOSPA and DOGS. In addn., the lipid particle may suitably contain a modified aggregation-limiting lipid such as a PEG-lipid, a PAO-lipid or a ganglioside.

IC A61K039-39

CC 63-6 (Pharmaceuticals)

ST Section cross-reference(s): 1, 15

ST lipid nucleic acid **vaccine** cytokine induction

IT **Vaccines**

(tumor; lipid-nucleic acid compns. for stimulating cytokine secretion and inducing an immune response)

IT Antitumor agents

(**vaccines**; lipid-nucleic acid compns. for stimulating cytokine secretion and inducing an immune response)

IT 7212-69-3, DODAC 25322-68-3D, Polyethylene glycol, lipid conjugates 124050-77-7, DOGS **137056-72-5**, Dc-chol 144189-73-1, Dotap 153312-64-2, DMRIE 329009-00-9

RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(lipid-nucleic acid compns. for stimulating cytokine secretion and inducing an immune response)

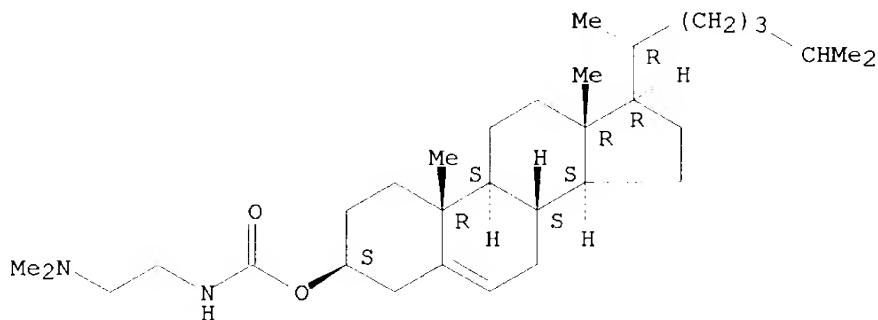
IT **137056-72-5**, Dc-chol

RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(lipid-nucleic acid compns. for stimulating cytokine secretion and inducing an immune response)

RN 137056-72-5 HCPLUS

CN Cholest-5-en-3-ol (3. β .)-, [2-(dimethylamino)ethyl]carbamate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L27 ANSWER 13 OF 28 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:115313 HCAPLUS
DOCUMENT NUMBER: 134:158465
TITLE: Cationic lipid compounds and their synthesis and use
for transfection and therapy
INVENTOR(S): Taillandier, Eliane; Cao, Xuan An; Coudert, Robert;
Naejus, Regine
PATENT ASSIGNEE(S): Universite Paris Nord, Fr.
SOURCE: PCT Int. Appl., 51 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001011068	A2	20010215	WO 2000-FR2234	20000803
WO 2001011068	A3	20020502		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
FR 2797188	A1	20010209	FR 1999-10141	19990804
EP 1218033	A2	20020703	EP 2000-956608	20000803
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
PRIORITY APPLN. INFO.:			FR 1999-10141	A 19990804
			WO 2000-FR2234	W 20000803

OTHER SOURCE(S): MARPAT 134:158465

AB The invention concerns the use of a monocationic lipid compds. R1O-CO-NH-(CH₂)_n-N+(C₂H₅)₃ I⁻ (R1 = cholesteryl; n = 1-3) or R2-CO-NH-(CH₂)_n-N+(R)₃ X⁻ (R2 = abietic acid, or cholic acid derivs.; R = Me, Et; n = 2, 3; X = Cl⁻, I⁻) and/or dicationic lipid compds. R1O-CO-N[CH₂-CH₂-N+(R)₃ X⁻]₂ or R1O-CO-CH₂-CH₂-CO-N[CH₂-CH₂-N+(R)₃ X⁻]₂ or R2-CO-N[CH₂-CH₂-N+(R)₃ X⁻]₂ (R1 = cholesteryl; R2 = abietic acid, cholic acid derivs.; R = H, Me, Et; X = Cl⁻, I⁻). Said compds. are

useful for transfecting living organisms *in vivo*, organs *in vivo*, tumors *in vivo*, or cells *in vitro* or *ex vivo*. Thus, 3-.beta.-[N-(N',N',N'-triethylaminopropane iodide)carbamoyl] cholesterol and other cationic lipids were synthesized. Transfection of CEM cells using this lipid was approx. 36-fold more efficient than with lipofectin.

IC ICM C12N015-87

CC 3-1 (Biochemical Genetics)

Section cross-reference(s): 32

IT **Immunization**

(**vaccination**, with nucleic acid **vaccines**; cationic lipid compds. and their synthesis and use for transfection and therapy)

IT 131333-65-8P 140674-58-4P 140674-62-0P 140680-60-0P 325719-58-2P

325719-59-3P 325719-60-6P 325719-61-7P 325719-62-8P 325719-63-9P

325719-64-0P **325719-65-1P** 325719-66-2P 325719-67-3P

325719-68-4P 325719-69-5P 325719-70-8P 325719-71-9P 325719-72-0P

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(cationic lipid compds. and their synthesis and use for transfection and therapy)

IT **325719-65-1P**

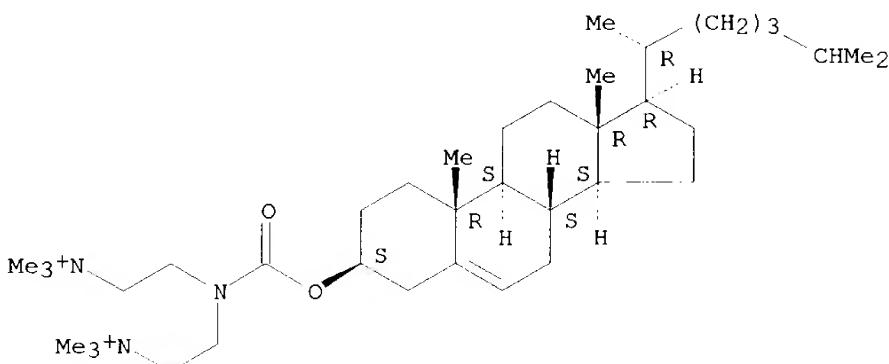
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(cationic lipid compds. and their synthesis and use for transfection and therapy)

RN 325719-65-1 HCPLUS

CN Cholest-5-en-3-ol (3.beta.)-, bis[2-(trimethylammonio)ethyl]carbamate, diiodide (9CI) (CA INDEX NAME)

Absolute stereochemistry.



●2 I-

L27 ANSWER 14 OF 28 HCPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:114958 HCPLUS

DOCUMENT NUMBER: 134:168319

TITLE: Periodic structures comprising lipids, polyelectrolytes, and structure-inducing soluble oligovalent linkers, and biological use thereof

INVENTOR(S): Cevc, Gregor; Huebner, Stefan
 PATENT ASSIGNEE(S): Idea Ag, Germany
 SOURCE: PCT Int. Appl., 33 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001010413	A2	20010215	WO 2000-EP7546	20000803
WO 2001010413	A3	20010816		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
JP 2003506398	T2	20030218	JP 2001-514933	20000803

PRIORITY APPLN. INFO.: DE 1999-19936665 A 19990804
 WO 2000-EP7546 W 20000803

AB This invention describes a method for prepgr. pharmaceutically usable compns. comprising periodic structures consisting of polyelectrolytes sandwiched between lipid aggregates having at least one charged component which is characterized in that a suspension of non-periodic, preferably mono- or bilayer like, lipid aggregates, a soln. of polyelectrolyte mols., and a soln. of oligovalent linkers are sep. made and then mixed to form said periodic structures, the simultaneous presence of said components catalyzing the formation of controlling the rate of formation of said periodic structures comprising at least one layer of lipid component assoccd. with a layer of polyelectrolyte mols.

IC ICM A61K009-127

CC 63-5 (Pharmaceuticals)

Section cross-reference(s): 3, 15

IT Immunization

(vaccination; periodic structures comprising lipids, polyelectrolytes, and structure-inducing sol. oligovalent linkers, and biol. use thereof)

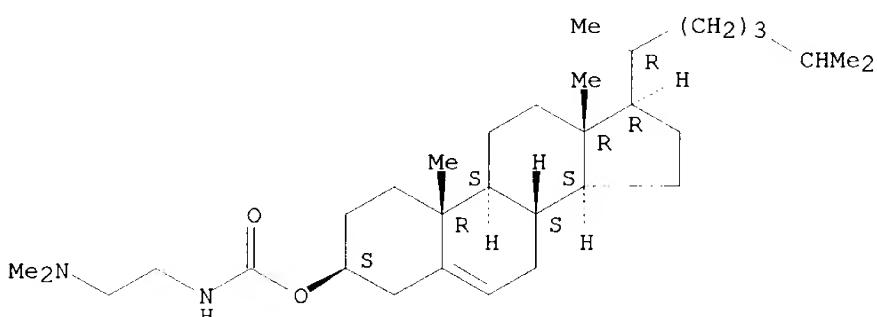
IT 54-85-3, Isonicotinic acid hydrazide 57-56-7, Semicarbazide 60-35-5, Acetamide, biological studies 67-62-9, Methoxyamine 71-44-3, Spermine 74-89-5, Methylamine, biological studies 75-04-7, Ethylamine, biological studies 75-50-3, Trimethylamine, biological studies 79-05-0, Propionamide 107-10-8, n-Propylamine, biological studies 107-15-3, Ethylenediamine, biological studies 109-73-9, n-Butylamine, biological studies 109-76-2, 1,3-Diaminopropane 109-85-3, 2-Methoxyethylamine 109-89-7, Diethylamine, biological studies 110-60-1, Putrescine 110-76-9, 2-Ethoxyethylamine 121-44-8, Triethylamine, biological studies 124-20-9, Spermidine 124-40-3, Dimethylamine, biological studies 141-43-5, Ethanolamine, biological studies 143-19-1, Sodium oleate 302-01-2, Hydrazine, biological studies 302-95-4, Sodium deoxycholate 462-94-2, Cadaverine 590-88-5, 1,3-Diaminobutane 629-25-4, Sodium laurate 822-12-8, Sodium myristate 822-17-3, Sodium linoleate 3282-73-3, DDAB 16409-34-0, Sodium glycodeoxycholate 18175-45-6,

Sodium elaidate 104162-48-3, Dotma 124050-77-7 **137056-72-5**,
Dc-chol 144189-73-1, Dotap 153312-64-2, Dmrie 168479-03-6, DOSPA
169619-96-9, Dotim
RL: PEP (Physical, engineering or chemical process); PRP (Properties); THU
(Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(periodic structures comprising lipids, polyelectrolytes, and
structure-inducing sol. oligovalent linkers, and biol. use thereof)

IT 137056-72-5, Dc-chol
RL: PEP (Physical, engineering or chemical process); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (periodic structures comprising lipids, polyelectrolytes, and structure-inducing sol. oligovalent linkers, and biol. use thereof)

RN 137056-72-5 HCAPLUS
CN Cholest-5-en-3-ol (3.β.)-, [2-(dimethylamino)ethyl]carbamate (9CI) (CA INDEX NAME)

Absolute stereochemistry



L27 ANSWER 15 OF 28 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:90882 HCAPLUS

DOCUMENT NUMBER: 136:10987

TITLE: Design, characterization and preclinical efficacy of a cationic lipid **adjuvant** for influenza split vaccine

AUTHOR(S): Guy, B.; Pascal, N.; Francon, A.; Bonnin, A.; Gimenez, S.; Lafay-Vialon, F.; Trappuy, E.; Haensler, J.

CORPORATE SOURCE: S. Lary viacon, L. Tramoy, L. Haeckler, S. Aventis Pasteur Marcy l'Etoile 69280 Fr.

SOURCE: *Archives Pasteur, Marcy l'Etoile, 07240, France* (2001) 19(13-14) 1794-1805

VACCINE (2001), 19(15-17), 1755
CODEN: VACGE8 ISSN: 0264-410X

PUBLISHER: Elsevier Science Ltd.

PUBLISHER: ELSEVIER
DOCUMENT TYPE: Journal

DOCUMENT TYPE: Journal
LANGUAGE: English

AB We prend, a series of catig

we prepared a series of cationic cholesterol deriv., PC-Chol

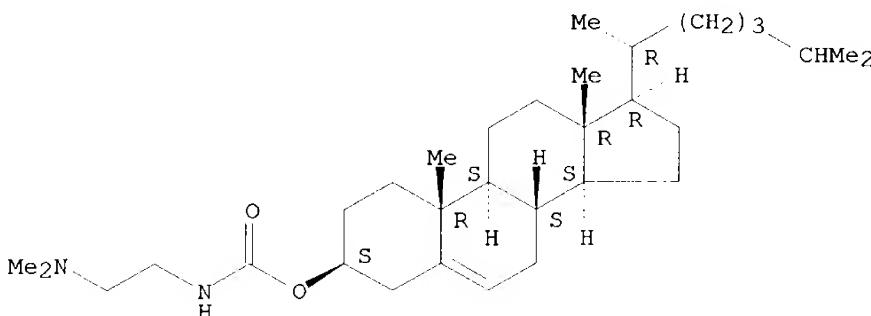
or DOPE. The vesicles were tested for their ability to bind and **adjuvant split inactivated influenza vaccines**. We found that DC-Chol-contg. liposomes are capable to strongly bind

we found that DC Chol Contg. Liposomes are capable to strongly bind **influenza vaccine** antigens upon simple mixing with the **vaccine**. The resulting formulations induced robust anti-**influenza** immune responses both after s.c. and i.n. administration in BALB/c mice while neutral Cholesterol/DOPC liposomes displayed virtually no stable antigen binding and no **adjuvant** effect. The

parenteral **adjuvant** effect of DC-Chol on trivalent split **influenza vaccines** was then confirmed in outbred mice and monkeys. Among the most potent formulations tested, a simple mixt. of the **vaccine** with a microfluidized dispersion of DC-Chol in an aq. buffer is being considered for further development to produce an improved **influenza vaccine**.

CC 63-3 (Pharmaceuticals)
 ST **influenza vaccine cationic lipid adjuvant**
 IT **Influenza**
Vaccines
 (design, characterization and preclin. efficacy of a cationic lipid **adjuvant for influenza split vaccine**)
 IT Drug delivery systems
 (liposomes; design, characterization and preclin. efficacy of a cationic lipid **adjuvant for influenza split vaccine**)
 IT 137056-72-5, DC-Chol
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (design, characterization and preclin. efficacy of a cationic lipid **adjuvant for influenza split vaccine**)
 IT 137056-72-5, DC-Chol
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (design, characterization and preclin. efficacy of a cationic lipid **adjuvant for influenza split vaccine**)
 RN 137056-72-5 HCPLUS
 CN Cholest-5-en-3-ol (3. β .)-, [2-(dimethylamino)ethyl]carbamate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 16 OF 28 HCPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2000:420985 HCPLUS
 DOCUMENT NUMBER: 133:57573
 TITLE: Multivalent immunogenic composition containing RSV subunit composition and **influenza** virus preparation
 INVENTOR(S): Cates, George A.; Sambhara, Suryaprakash; Burt, David; Klein, Michel H.

PATENT ASSIGNEE(S): Connaught Laboratories Limited, Can.
 SOURCE: PCT Int. Appl., 33 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000035481	A2	20000622	WO 1999-CA1194	19991216
WO 2000035481	A3	20001026		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1140164	A2	20011010	EP 1999-957825	19991216
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRIORITY APPLN. INFO.:			US 1998-213770	A 19981217
			WO 1999-CA1194	W 19991216

AB Immunogenic compns. for administration to adults, particularly to the elderly, to protect them against disease caused by infection by respiratory syncytial virus and by **influenza** virus comprise an immunoeffective amt. of a mixt. of purified fusion (F) protein, attachment (G) protein and matrix (M) protein of RSV and an immunoeffective amt. of a non-virulent **influenza** virus prepn. The components of the compn., when formulated as a **vaccine** for in vivo administration, do not impair the immunogenicity of each other. The immunogenic compn. may also contain an **adjuvant**.

IC ICM A61K039-295
 ICS A61P031-12

CC 15-2 (Immunochemistry)

ST **vaccine** elderly respiratory syncytial virus **influenza**;
 RSV F G M protein **vaccine**

IT Proteins, specific or class
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (F; multivalent immunogenic compn. contg. purified F protein, G protein and M protein of respiratory syncytial virus and nonvirulent **influenza** virus)

IT Proteins, specific or class
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (M (matrix); multivalent immunogenic compn. contg. purified F protein, G protein and M protein of respiratory syncytial virus and nonvirulent **influenza** virus)

IT Polyphosphazenes
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (**adjuvant**; multivalent immunogenic compn. contg. purified F protein, G protein and M protein of respiratory syncytial virus and nonvirulent **influenza** virus)

IT Immunostimulants
 (**adjuvants**, ISCOMs; multivalent immunogenic compn. contg.

purified F protein, G protein and M protein of respiratory syncytial virus and nonvirulent **influenza** virus)

IT Immunostimulants
 (adjuvants, ISCOPEP; multivalent immunogenic compn. contg. purified F protein, G protein and M protein of respiratory syncytial virus and nonvirulent **influenza** virus)

IT Immunostimulants
 (adjuvants; multivalent immunogenic compn. contg. purified F protein, G protein and M protein of respiratory syncytial virus and nonvirulent **influenza** virus)

IT Proteins, specific or class
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (attachment; multivalent immunogenic compn. contg. purified F protein, G protein and M protein of respiratory syncytial virus and nonvirulent **influenza** virus)

IT Toxins
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (bacterial; multivalent immunogenic compn. contg. purified F protein, G protein and M protein of respiratory syncytial virus and nonvirulent **influenza** virus)

IT Aging, animal
 (elderly, vaccine; multivalent immunogenic compn. contg. purified F protein, G protein and M protein of respiratory syncytial virus and nonvirulent **influenza** virus)

IT Capsules
 Immunomodulators
Influenza virus
 Liposomes
 Microparticles
 Respiratory syncytial virus
 Vaccines
 (multivalent immunogenic compn. contg. purified F protein, G protein and M protein of respiratory syncytial virus and nonvirulent **influenza** virus)

IT Antigens
 Cytokines
 Glycolipids
 Interleukin 2
 Lipoproteins
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (multivalent immunogenic compn. contg. purified F protein, G protein and M protein of respiratory syncytial virus and nonvirulent **influenza** virus)

IT Amino acids, biological studies
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (octadecyl esters; multivalent immunogenic compn. contg. purified F protein, G protein and M protein of respiratory syncytial virus and nonvirulent **influenza** virus)

IT 1305-62-0, Calcium hydroxide, biological studies 7784-30-7, Aluminum phosphate 10103-46-5, Calcium phosphate 21645-51-2, Aluminum hydroxide, biological studies 53678-77-6, Muramyl dipeptide 137056-72-5, DC-Chol 277303-29-4, DDBA 277333-71-8
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (adjuvant; multivalent immunogenic compn. contg. purified F protein, G protein and M protein of respiratory syncytial virus and nonvirulent **influenza** virus)

IT 20427-58-1, Zinc hydroxide 66594-14-7, Quil A 141256-04-4, QS-21

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (multivalent immunogenic compn. contg. purified F protein, G protein
 and M protein of respiratory syncytial virus and nonvirulent
influenza virus)

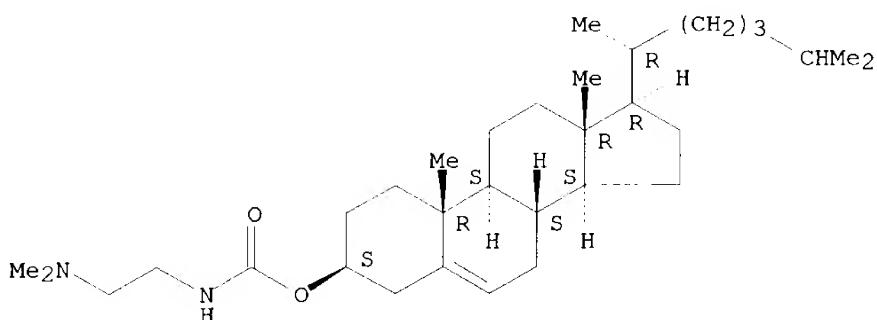
IT 137056-72-5, DC-Chol

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (**adjuvant**; multivalent immunogenic compn. contg. purified F
 protein, G protein and M protein of respiratory syncytial virus and
 nonvirulent **influenza** virus)

RN 137056-72-5 HCAPLUS

CN Cholest-5-en-3-ol (3.β.)-, [2-(dimethylamino)ethyl]carbamate (9CI) (CA
 INDEX NAME)

Absolute stereochemistry.



L27 ANSWER 17 OF 28 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:420981 HCAPLUS

DOCUMENT NUMBER: 133:57570

TITLE: Multi-component **vaccine** comprising at least
 two antigens from *Haemophilus influenzae* to protect
 against disease

INVENTOR(S): Loosmore, Sheena M.; Yang, Yan-ping; Klein, Michel H.

PATENT ASSIGNEE(S): Connaught Laboratories Ltd., Can.

SOURCE: PCT Int. Appl., 44 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000035477	A2	20000622	WO 1999-CA1189	19991215
WO 2000035477	A3	20001026		
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,			

CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 CA 2355466 AA 20000622 CA 1999-2355466 19991215
 EP 1140158 A2 20011010 EP 1999-957822 19991215
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO
 JP 2002532433 T2 20021002 JP 2000-587796 19991215
 PRIORITY APPLN. INFO.: US 1998-210995 A 19981215
 WO 1999-CA1189 W 19991215

AB A multi-component immunogenic compn. confers protection on an immunized host against infection caused by *Haemophilus influenzae*. Such compn. comprises at least two different antigens of *Haemophilus influenzae*, one of which is an adhesin. High mol. wt. (HMW) proteins of non-typeable *Haemophilus influenzae* enhance the immune response in a host to a non-proteolytic analog of Hin47 protein in such immunogenic compns. with one component not impairing the immunogenicity of the other. The *Haemophilus vaccine* may be combined with DTP component **vaccines** to provide a multi-valent component **vaccine** without impairment of the immunogenic properties of the other antigens.

IC ICM A61K039-102
 ICS A61K039-116; A61K039-295; A61P031-04

CC 15-2 (Immunochemistry)

Section cross-reference(s): 3

ST **vaccine** *Haemophilus influenza* adhesin HMW1 HMW2; heat shock protein Hin47 **influenza vaccine**

IT **Hemagglutinins**

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (FHA (filamentous **hemagglutinin**); multi-component
vaccine comprising at least two antigens from *Haemophilus influenzae* to protect against disease)

IT Proteins, specific or class

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (HMW1; multi-component **vaccine** comprising at least two
 antigens from *Haemophilus influenzae* to protect against disease)

IT Proteins, specific or class

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (HMW2; multi-component **vaccine** comprising at least two
 antigens from *Haemophilus influenzae* to protect against disease)

IT Proteins, specific or class

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (Hin47; multi-component **vaccine** comprising at least two
 antigens from *Haemophilus influenzae* to protect against disease)

IT Immunostimulants

(**adjuvants**, ISCOMs; multi-component **vaccine**
 comprising at least two antigens from *Haemophilus influenzae* to protect
 against disease)

IT Immunostimulants

(**adjuvants**, ISCOPREP and DBBA; multi-component
vaccine comprising at least two antigens from *Haemophilus influenzae* to protect against disease)

IT Agglutinins and Lectins

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (agglutinogens; multi-component **vaccine** comprising at least
 two antigens from *Haemophilus influenzae* to protect against disease)

IT Pertussis

(antigen; multi-component **vaccine** comprising at least two
 antigens from *Haemophilus influenzae* to protect against disease)

IT Toxins

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(bacterial; multi-component **vaccine** comprising at least two
antigens from *Haemophilus influenzae* to protect against disease)

IT Polysaccharides, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(capsular; multi-component **vaccine** comprising at least two
antigens from *Haemophilus influenzae* to protect against disease)

IT Mutation
(deletion; multi-component **vaccine** comprising at least two
antigens from *Haemophilus influenzae* to protect against disease)

IT Toxoids
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(diphtheria; multi-component **vaccine** comprising at least two
antigens from *Haemophilus influenzae* to protect against disease)

IT Proteins, specific or class
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(high-mol.-wt.; multi-component **vaccine** comprising at least
two antigens from *Haemophilus influenzae* to protect against disease)

IT *Haemophilus influenzae*
Human poliovirus
Human poliovirus 1
Human poliovirus 2
Human poliovirus 3
Molecular cloning
Pathogen
Vaccines
(multi-component **vaccine** comprising at least two antigens
from *Haemophilus influenzae* to protect against disease)

IT Adhesins
Antigens
Glycolipids
Lipoproteins
Polyporphazenes
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(multi-component **vaccine** comprising at least two antigens
from *Haemophilus influenzae* to protect against disease)

IT Heat-shock proteins
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(non-proteolytic; multi-component **vaccine** comprising at least
two antigens from *Haemophilus influenzae* to protect against disease)

IT Amino acids, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(octadecyl ester; multi-component **vaccine** comprising at least
two antigens from *Haemophilus influenzae* to protect against disease)

IT Ear
(otitis, otitis media; multi-component **vaccine** comprising at
least two antigens from *Haemophilus influenzae* to protect against
disease)

IT Agglutinins and Lectins
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pertactins; multi-component **vaccine** comprising at least two
antigens from *Haemophilus influenzae* to protect against disease)

IT Toxoids
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pertussis; multi-component **vaccine** comprising at least two
antigens from *Haemophilus influenzae* to protect against disease)

IT Mutation

(substitution; multi-component **vaccine** comprising at least two antigens from *Haemophilus influenzae* to protect against disease)

IT Toxoids

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (tetanus; multi-component **vaccine** comprising at least two antigens from *Haemophilus influenzae* to protect against disease)

IT 1305-62-0, Calcium hydroxide, biological studies 7784-30-7, Aluminum phosphate 10103-46-5, Calcium phosphate 20427-58-1, Zinc hydroxide 21645-51-2, Aluminum hydroxide, biological studies 53678-77-6, Muramyl dipeptide 66594-14-7, Quil A **137056-72-5**, DC-chol 141256-04-4, QS 21

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (multi-component **vaccine** comprising at least two antigens from *Haemophilus influenzae* to protect against disease)

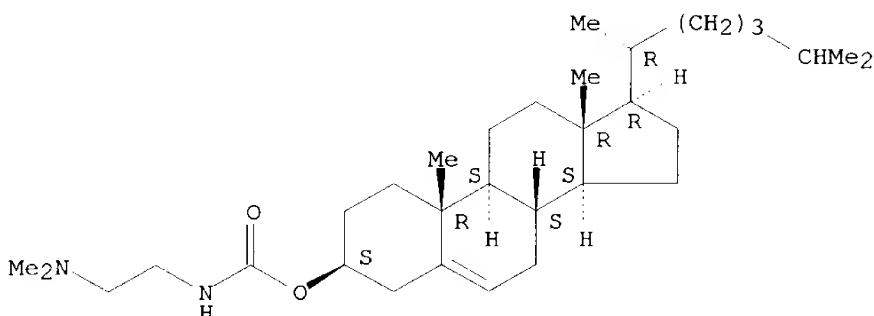
IT **137056-72-5**, DC-chol

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (multi-component **vaccine** comprising at least two antigens from *Haemophilus influenzae* to protect against disease)

RN 137056-72-5 HCPLUS

CN Cholest-5-en-3-ol (3. β .)-, [2-(dimethylamino)ethyl]carbamate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L27 ANSWER 18 OF 28 HCPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:34710 HCPLUS

DOCUMENT NUMBER: 132:83616

TITLE: Use of an amphipathic compound for providing an **adjuvant** to a subunit **vaccine**

INVENTOR(S): Darbouret, Anne; Brunel, Florence; Ronco, Jorge

PATENT ASSIGNEE(S): Pasteur Merieux Serums & Vaccins, Fr.

SOURCE: PCT Int. Appl., 11 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000001345	A2	20000113	WO 1999-FR1604	19990702
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,				

DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
 JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
 MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
 TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ,
 MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
 ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
 CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

FR 2781160 A1 20000121 FR 1998-8700 19980703

FR 2781160 B1 20000818

CA 2337048 AA 20000113 CA 1999-2337048 19990702

AU 9946217 A1 20000124 AU 1999-46217 19990702

EP 1093382 A2 20010425 EP 1999-929389 19990702

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO

US 6472159 B1 20021029 US 2001-720863 20010416

PRIORITY APPLN. INFO.: FR 1998-8700 A 19980703
 WO 1999-FR1604 W 19990702

AB An amphipathic compd. for prep. a **vaccine** compn. comprising at least a subunit antigen to be administered to target populations comprising non-responders to said antigen is disclosed. A particular amphipathic compd. is 3-.beta.-[N-(N',N'-dimethylaminoethane)-carbamoyl]cholesterol (I). A **vaccine** contained hepatitis B antigen 1.mu.g, I 0.5 mg, and buffer q.s. 0.5 mL. The efficacy of the **vaccine** in immunization of guinea pigs is shown.

IC ICM A61K

CC 63-3 (Pharmaceuticals)

ST **vaccine** amphipathic compd **adjuvant**; carbamoyl cholesterol **vaccine adjuvant**

IT Immunostimulants

(**adjuvants**; use of amphipathic compd. for providing **adjuvant** to subunit **vaccine**)

IT **Vaccines**

(hepatitis B; use of amphipathic compd. for providing **adjuvant** to subunit **vaccine**)

IT Antigens

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(hepatitis B; use of amphipathic compd. for providing **adjuvant** to subunit **vaccine**)

IT **Vaccines**

(use of amphipathic compd. for providing **adjuvant** to subunit **vaccine**)

IT 137056-72-5

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(use of amphipathic compd. for providing **adjuvant** to subunit **vaccine**)

IT 137056-72-5

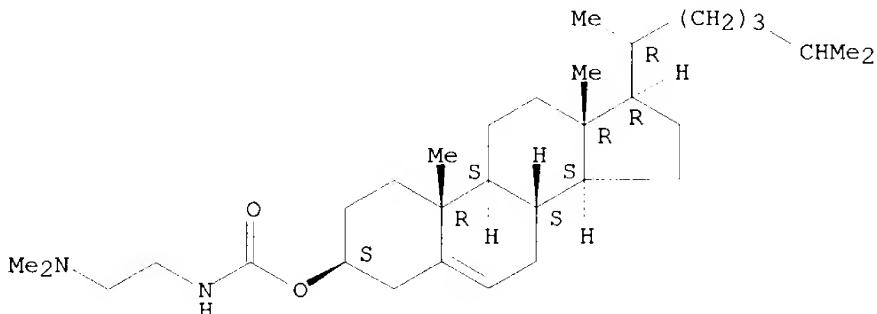
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(use of amphipathic compd. for providing **adjuvant** to subunit **vaccine**)

RN 137056-72-5 HCAPLUS

CN Cholest-5-en-3-ol (3. β .)-, [2-(dimethylamino)ethyl]carbamate (9CI) (CA
INDEX NAME)

Absolute stereochemistry.



L27 ANSWER 19 OF 28 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1999:318977 HCAPLUS

DOCUMENT NUMBER: 131:143208

TITLE: Cationic lipid DC-Chol induces an improved and balanced immunity able to overcome the unresponsiveness to the hepatitis B **vaccine**

AUTHOR(S): Brunel, F.; Darbouret, A.; Ronco, J.

CORPORATE SOURCE: Research Department, Pasteur Merieux Connaught, Marcy L'Etoile, 69280, Fr.

SOURCE: Vaccine (1999), 17(17), 2192-2203
CODEN: VACCDE; ISSN: 0264-410X

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB **Th1** and **Th2** immune responses against antigens can be modulated by the use of **adjuvants**. Since antibody isotypes (IgG1 and IgG2a) and cytokines induced may reflect the Th differentiation taking place during the immune response, the **humoral** and cellular immune responses induced in mice against hepatitis B virus surface antigen (HBsAg) were exampd. when the antigen was either adsorbed to aluminum hydroxyde or administered with a new **adjuvant** the cationic lipid 3. β .-[(N-(N',N'-dimethylaminoethane)carbamoyl)cholesterol (DC-Chol). The use of DC-Chol increased antibody responses in responding BALB/c mice, induced more consistent IgG1 and IgG2a antibody responses in OF1 mice and overcame the nonresponse to HBsAg in B10.M mice. Furthermore, DC-Chol was able to induce cellular immune responses to HBsAg. The DC-Chol induced a balanced **Th1/Th2** response, which enabled mice to overcome the inherited unresponsiveness to HBsAg encountered with aluminum-adjuvanted **vaccine**. Thus, the DC-Chol provides a signal to switch on both **Th1** and **Th2** responses, which may have important implications for **vaccination** against hepatitis B virus, as well as for enhancing weak immunogenicity of other recombinant purified antigens in a nonresponder population.

CC 15-2 (Immunochemistry)

Section cross-reference(s): 1, 63

ST cationic lipid **adjuvant** DC Chol hepatitis B **vaccine**

IT Immunoglobulins

RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative); PROC (Process)
(G1; cationic lipid DC-Chol induces improved and balanced immunity able to overcome unresponsiveness to hepatitis B **vaccine** and formation of)

IT Immunoglobulins
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative); PROC (Process)
(G2a; cationic lipid DC-Chol induces improved and balanced immunity able to overcome unresponsiveness to hepatitis B **vaccine** and formation of)

IT Immunostimulants
(**adjuvants**; cationic lipid DC-Chol induces improved and balanced immunity able to overcome unresponsiveness to hepatitis B **vaccine**)

IT Hepatitis B virus
Vaccines
(cationic lipid DC-Chol induces improved and balanced immunity able to overcome unresponsiveness to hepatitis B **vaccine**)

IT T cell (lymphocyte)
(helper cell/inducer, **TH1**; cationic lipid DC-Chol induces improved and balanced immunity able to overcome unresponsiveness to hepatitis B **vaccine**)

IT T cell (lymphocyte)
(helper cell/inducer, **TH2**; cationic lipid DC-Chol induces improved and balanced immunity able to overcome unresponsiveness to hepatitis B **vaccine**)

IT Antigens
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(hepatitis B surface, recombinant; cationic lipid DC-Chol induces improved and balanced immunity able to overcome unresponsiveness to hepatitis B **vaccine**)

IT **137056-72-5**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(cationic lipid DC-Chol induces improved and balanced immunity able to overcome unresponsiveness to hepatitis B **vaccine**)

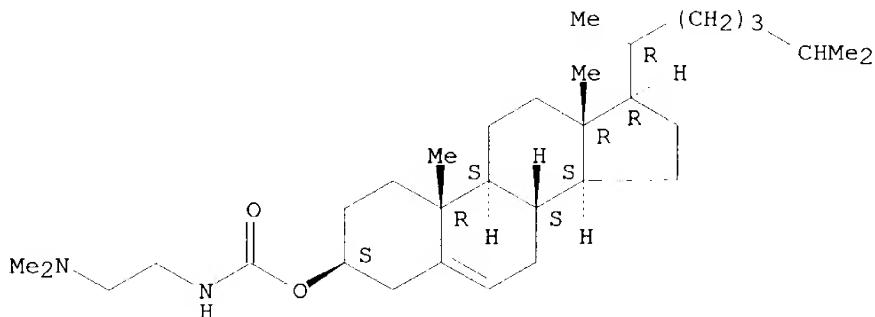
IT 21645-51-2, Aluminum hydroxide, biological studies
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(cationic lipid DC-Chol induces improved and balanced immunity able to overcome unresponsiveness to hepatitis B **vaccine** compared to)

IT **137056-72-5**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(cationic lipid DC-Chol induces improved and balanced immunity able to overcome unresponsiveness to hepatitis B **vaccine**)

RN 137056-72-5 HCAPLUS

CN Cholest-5-en-3-ol (3. β .)-, [2-(dimethylamino)ethyl]carbamate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 20 OF 28 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1998:721602 HCAPLUS
 DOCUMENT NUMBER: 129:342686
 TITLE: Anti-Helicobacter **vaccine** composition comprising a **Th1 adjuvant**
 INVENTOR(S): Guy, Bruno; Haensler, Jean
 PATENT ASSIGNEE(S): Merieux Oravax, Fr.
 SOURCE: PCT Int. Appl., 60 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9848836	A1	19981105	WO 1998-FR875	19980430
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
FR 2762787	A1	19981106	FR 1997-5608	19970430
FR 2762787	B1	20001006		
AU 9876584	A1	19981124	AU 1998-76584	19980430
AU 750379	B2	20020718		
EP 979100	A1	20000216	EP 1998-924360	19980430
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
BR 9809381	A	20000704	BR 1998-9381	19980430
JP 2002505665	T2	20020219	JP 1998-546684	19980430
PRIORITY APPLN. INFO.:			FR 1997-5608	A 19970430
			FR 1997-15732	A 19971208
			WO 1998-FR875	W 19980430
OTHER SOURCE(S):		MARPAT 129:342686		

AB The invention concerns the use of an immunogenic agent derived from *Helicobacter*, assocd. with an **adjuvant** such as QS-21, DC-chol or Bay R1005, for making a pharmaceutical compn. designed to induce an immune response of the T helper 1 type (**Th1**), for preventing or treating *Helicobacter* infection in a **mammal**.

IC ICM A61K039-106

CC 15-2 (Immunochemistry)
Section cross-reference(s): 63

ST *Helicobacter vaccine Th1 adjuvant*

IT Immunoglobulins
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)
(A; anti-*Helicobacter vaccine* compn. with **Th1 adjuvant**)

IT Immunoglobulins
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)
(G1; anti-*Helicobacter vaccine* compn. with **Th1 adjuvant**)

IT Immunoglobulins
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)
(G2a; anti-*Helicobacter vaccine* compn. with **Th1 adjuvant**)

IT Peptides, biological studies
Proteins, general, biological studies
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(*Helicobacter*; anti-*Helicobacter vaccine* compn. with **Th1 adjuvant**)

IT Polyphosphazenes
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(PCPP; anti-*Helicobacter vaccine* compn. with **Th1 adjuvant**)

IT Immunostimulants
(**adjuvants**; anti-*Helicobacter vaccine* compn. with **Th1 adjuvant**)

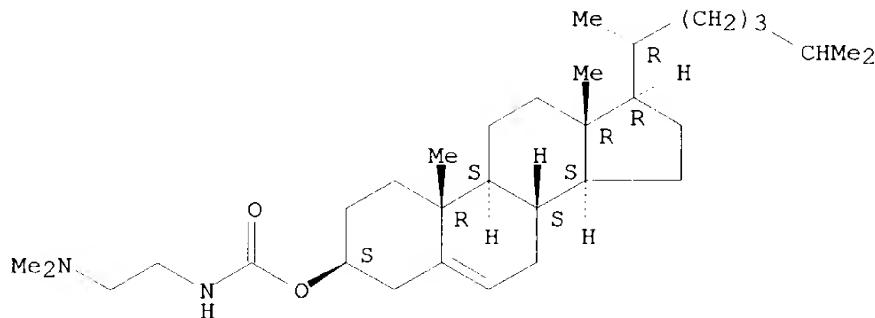
IT Antibacterial agents
Drug delivery systems
Helicobacter
Helicobacter pylori
Vaccines
(anti-*Helicobacter vaccine* compn. with **Th1 adjuvant**)

IT Glycolipoproteptides
Saponins
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(anti-*Helicobacter vaccine* compn. with **Th1 adjuvant**)

IT Lipids, biological studies
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(cationic; anti-Helicobacter **vaccine** compn. with **Th1 adjuvant**)
IT Immunity
(cell-mediated; anti-Helicobacter **vaccine** compn. with **Th1 adjuvant**)
IT Toxins
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(cholera; anti-Helicobacter **vaccine** compn. with **Th1 adjuvant**)
IT Escherichia coli
(heat-labile toxin; anti-Helicobacter **vaccine** compn. with **Th1 adjuvant**)
IT Toxins
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(heat-labile, E.coli; anti-Helicobacter **vaccine** compn. with **Th1 adjuvant**)
IT T cell (lymphocyte)
(helper cell/inducer, **TH1**; anti-Helicobacter **vaccine** compn. with **Th1 adjuvant**)
IT Drug delivery systems
(liposomes; anti-Helicobacter **vaccine** compn. with **Th1 adjuvant**)
IT Quillaja saponaria
(saponins; anti-Helicobacter **vaccine** compn. with **Th1 adjuvant**)
IT 9002-13-5, Urease
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(*Helicobacter*, UreA or UreB subunit; anti-Helicobacter **vaccine** compn. with **Th1 adjuvant**)
IT 57-88-5D, Cholesterol, derivs. **137056-72-5** 294664-93-0, Bay R1005
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(anti-Helicobacter **vaccine** compn. with **Th1 adjuvant**)
IT 141436-78-4, Protein kinase C
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(anti-Helicobacter **vaccine** compn. with **Th1 adjuvant**)
IT **137056-72-5**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(anti-Helicobacter **vaccine** compn. with **Th1 adjuvant**)
RN 137056-72-5 HCPLUS
CN Cholest-5-en-3-ol (3. β .)-, [2-(dimethylamino)ethyl]carbamate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 21 OF 28 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1998:719294 HCAPLUS

DOCUMENT NUMBER: 129:342685

TITLE: Anti-Helicobacter **vaccine** for use by the subdiaphragmatic systemic route and combined **mucosal**/parenteral immunization

INVENTOR(S): Guy, Bruno; Haensler, Jean; Lee, Cynthia K.; Weltzin, Richard A.; Monath, Thomas P.

PATENT ASSIGNEE(S): Merieux Oravax, Fr.

SOURCE: PCT Int. Appl., 59 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9848835	A1	19981105	WO 1998-US8890	19980430
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
FR 2762788	A1	19981106	FR 1997-5609	19970430
FR 2762788	B1	20001006		
AU 9872768	A1	19981124	AU 1998-72768	19980430
AU 751433	B2	20020815		
BR 9809426	A	20000613	BR 1998-9426	19980430
EP 1017417	A1	20000712	EP 1998-920126	19980430
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
JP 2002512619	T2	20020423	JP 1998-547441	19980430
NO 9905290	A	19991229	NO 1999-5290	19991029
PRIORITY APPLN. INFO.:				
		FR 1997-5609	A	19970430
		FR 1997-15731	A	19971208
		WO 1998-US8890	W	19980430

AB The subject of the invention is the use of an immunogenic agent (e.g.,

urease) derived from *Helicobacter*, in the manuf. of a pharmaceutical compn. intended for the induction of a T helper 1 (**Th1**) type immune response against *Helicobacter* in order to prevent or treat a *Helicobacter* infection. This may be achieved when the pharmaceutical compn. is administered by the systemic or parenteral route to the dorsolumbar region of the diaphragm. Also included in the invention is a **mucosal**/parenteral immunization method for the prevention or treatment of *Helicobacter* infection.

IC ICM A61K039-02
ICS A01N043-04; A61K031-70
CC 15-2 (Immunochemistry)
Section cross-reference(s): 14
ST *Helicobacter* **vaccine** subdiaphragmatic immunization
IT Toxins
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(*Clostridium difficile*; as **adjuvant** in subdiaphragmatic systemic and **mucosal**/parenteral immunization against *Helicobacter* infection)
IT Immunoglobulins
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(G1; as marker for **Th1** cell response in immunization against *Helicobacter* infection)
IT Immunoglobulins
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(G2a; as marker for **Th1** cell response in immunization against *Helicobacter* infection)
IT Immunostimulants
(**adjuvants**; in subdiaphragmatic systemic and **mucosal**/parenteral immunization against *Helicobacter* infection)
IT Alums
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(as **adjuvant** in subdiaphragmatic systemic and **mucosal**/parenteral immunization against *Helicobacter* infection)
IT Infection
(bacterial; urease subunits in subdiaphragmatic systemic and **mucosal**/parenteral immunization against *Helicobacter* infection)
IT Toxins
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(cholera; as **adjuvant** in subdiaphragmatic systemic and **mucosal**/parenteral immunization against *Helicobacter* infection)
IT Toxins
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(enterotoxins, heat-labile; as **adjuvant** in subdiaphragmatic systemic and **mucosal**/parenteral immunization against *Helicobacter* infection)
IT Immunoassay
(enzyme-linked immunosorbent assay; in detection of IgG1/IgG2a ratio as marker for **Th1** cell response in immunization against *Helicobacter* infection)
IT Microspheres
(for delivery of urease subunits in subdiaphragmatic systemic and **mucosal**/parenteral immunization against *Helicobacter* infection)
IT T cell (lymphocyte)
(helper cell/inducer, **TH1**; urease subunits in subdiaphragmatic systemic and **mucosal**/parenteral immunization

against Helicobacter infection)

IT Drug delivery systems
(liposomes; for delivery of urease subunits in subdiaphragmatic systemic and **mucosal**/parenteral immunization against Helicobacter infection)

IT Immunization
(**mucosal**; with urease subunits of Helicobacter pylori)

IT Antigens
Gene, microbial
Lipopeptides
Peptides, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(of Helicobacter for subdiaphragmatic systemic and **mucosal**/parenteral immunization against infection)

IT **Vaccines**
(oral; urease subunits in immunization against Helicobacter infection)

IT Toxins
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pertussis; as **adjuvant** in subdiaphragmatic systemic and **mucosal**/parenteral immunization against Helicobacter infection)

IT **Vaccines**
(urease subunits in subdiaphragmatic systemic and **mucosal**/parenteral immunization against Helicobacter infection)

IT Antiulcer agents
(urease subunits in subdiaphragmatic systemic and **mucosal**/parenteral immunization against Helicobacter infection in relation to)

IT Helicobacter
Helicobacter pylori
(urease subunits in subdiaphragmatic systemic and **mucosal**/parenteral immunization against infection with)

IT 137056-72-5 141256-04-4, QS-21 294664-93-0, Bay R1005
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(as **adjuvant** in subdiaphragmatic systemic and **mucosal**/parenteral immunization against Helicobacter infection)

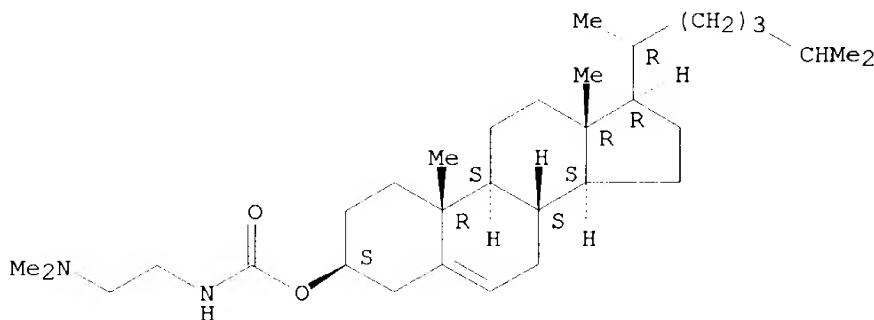
IT 9002-13-5, Urease
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(in subdiaphragmatic systemic and **mucosal**/parenteral immunization against Helicobacter infection)

IT 137056-72-5
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(as **adjuvant** in subdiaphragmatic systemic and **mucosal**/parenteral immunization against Helicobacter infection)

RN 137056-72-5 HCAPLUS

CN Cholest-5-en-3-ol (3. β .)-, [2-(dimethylamino)ethyl]carbamate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 22 OF 28 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1998:479572 HCAPLUS
 DOCUMENT NUMBER: 129:100060
 TITLE: Biodegradable targetable microparticle delivery system
 INVENTOR(S): Sokoll, Kenneth K.; Chong, Pele; Klein, Michel H.
 PATENT ASSIGNEE(S): Connaught Laboratories Ltd., Can.
 SOURCE: PCT Int. Appl., 148 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9828357	A1	19980702	WO 1997-CA980	19971219
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 6042820	A	20000328	US 1996-770850	19961220
AU 9854721	A1	19980717	AU 1998-54721	19971219
AU 729305	B2	20010201		
EP 946624	A1	19991006	EP 1997-951024	19971219
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2000509428	T2	20000725	JP 1998-528169	19971219
JP 3242118	B2	20011225		
BR 9714065	A	20001024	BR 1997-14065	19971219
JP 2002138139	A2	20020514	JP 2001-255329	19971219
US 6228423	B1	20010508	US 2000-501373	20000211
US 6287604	B1	20010911	US 2000-502674	20000211
US 6312732	B1	20011106	US 2000-499533	20000211
US 6471996	B1	20021029	US 2000-499532	20000211
PRIORITY APPLN. INFO.:			US 1996-770850	A2 19961220
			JP 1998-528169	A3 19971219

WO 1997-CA980 W 19971219

AB Copolymers designed for use as particulate carriers contg. functionalizable amino acid subunits for coupling with targeting ligands are described. The copolymers are polyesters composed of .alpha.-hydroxy acid subunits such as D,L-lactide and pseudo-.alpha.-amino acid subunits which may be derived from serine or terpolymers of D,L-lactide and glycolide and pseudo-.alpha.-amino acid subunits which may be derived from serine. Stable **vaccine** prepns. useful as delayed release formulations contg. antigen or antigens and **adjuvants** encapsulated within or phys. mixed with polymeric microparticles are described. The particulate carriers are useful for delivering agents to the immune system of a subject by **mucosal** or parenteral routes to produce immune responses, including antibody and protective responses. A glycolide-lactide-pseudo-Z-serine ester and its deprotected analog were prepd. and microparticles were prepd. from these copolymers. The copolymer microparticles were used to encapsulate immune **adjuvants** or proteins.

IC ICM C08G063-685
ICS C08G075-26; A61K009-16

CC 63-6 (Pharmaceuticals)

ST biodegradable microparticle immune agent; polyester microparticle vaccine

IT Immunostimulants

(adjuvants; biodegradable targetable microparticle delivery system)

IT Drug targeting

Influenza

Vaccines (biodegradable targetable microparticle delivery system)

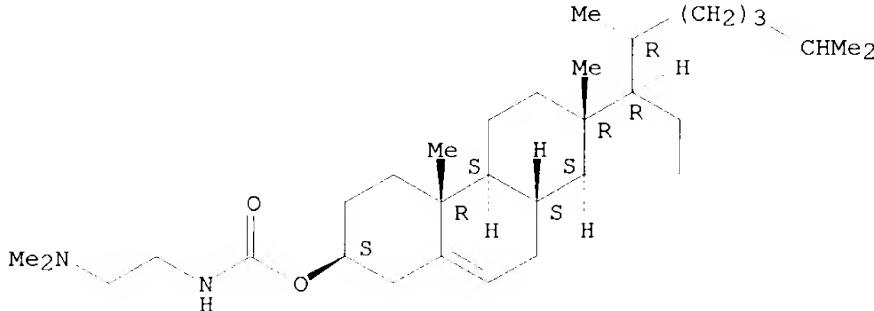
IT 137056-72-5 209794-26-3 294664-93-0, BAY-R 1005
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(biodegradable targetable microparticle delivery system)

IT **137056-72-5**
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(biodegradable targetable microparticle delivery system)
RN 137056-72-5 UGMPUS

RN 137056-72-5 HCPLUS

CN Cholest-5-en-3-ol (3. β .)-, [2-(dimethylamino)ethyl]carbamate (9CI) (CA
INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT:

1

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 23 OF 28 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1998:180751 HCAPLUS
 DOCUMENT NUMBER: 128:248559
 TITLE: Cationic liposomes with entrapped polynucleotides for
 use as gene **vaccines**
 INVENTOR(S): Gregoriadis, Gregory
 PATENT ASSIGNEE(S): School of Pharmacy, UK; Gregoriadis, Gregory
 SOURCE: PCT Int. Appl., 51 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9810748	A1	19980319	WO 1997-GB2490	19970915
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9742154	A1	19980402	AU 1997-42154	19970915
AU 728581	B2	20010111		
EP 938298	A1	19990901	EP 1997-940250	19970915
EP 928298	B1	20021204		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI CN 1237102	A	19991201	CN 1997-199674	19970915
JP 2001502299	T2	20010220	JP 1998-513398	19970915
EP 1254657	A2	20021106	EP 2002-16936	19970915
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI AT 228824	E	20021215	AT 1997-940250	19970915
KR 2000036088	A	20000626	KR 1999-702103	19990312
PRIORITY APPLN. INFO.:			GB 1996-19172	A 19960913
			GB 1996-25917	A 19961213
			GB 1997-13994	A 19970701
			EP 1997-940250	A3 19970915
			WO 1997-GB2490	W 19970915

OTHER SOURCE(S): MARPAT 128:248559

AB Cationic liposomes with entrapped polynucleotide in the intravesicular space are described. The liposomes include cationic components such as cationic lipids such as DOTAP. Preferably the method of forming liposomes uses the dehydration-rehydration method in the presence of the polynucleotide. The polynucleotide preferably operatively encodes an antigen capable of eliciting a desired immune response, i.e., is a gene **vaccine**.

IC ICM A61K009-127
 ICS A61K039-00; A61K048-00; C12P025-00; C12N015-00

CC 63-5 (Pharmaceuticals)

Section cross-reference(s): 15

ST gene **vaccine** cationic liposome entrapped polynucleotide

IT Antitumor agents

Dehydration

Extrusion, nonbiological
 Freeze drying
 Plasmids

Vaccines

(cationic liposomes with entrapped polynucleotides for use as gene
vaccines)

IT Glycerides, biological studies
 Phosphatidylethanolamines, biological studies
 RL: DEV (Device component use); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
 (cationic liposomes with entrapped polynucleotides for use as gene
vaccines)

IT Antigens
 DNA
 Gene
 Polynucleotides
 Promoter (genetic element)
 mRNA
 RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
 (cationic liposomes with entrapped polynucleotides for use as gene
vaccines)

IT Drug delivery systems
 (injections; cationic liposomes with entrapped polynucleotides for use as gene **vaccines**)

IT Drug delivery systems
 (liposomes; cationic liposomes with entrapped polynucleotides for use as gene **vaccines**)

IT Fluidization
 (microfluidization; cationic liposomes with entrapped polynucleotides for use as gene **vaccines**)

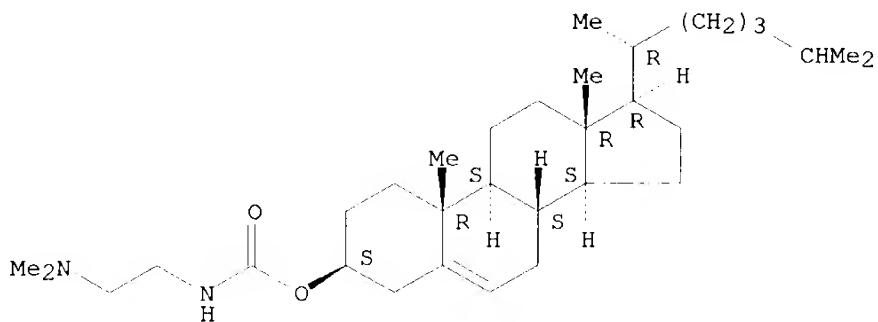
IT Genetic element
 RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
 (ribosome-binding site; cationic liposomes with entrapped polynucleotides for use as gene **vaccines**)

IT 124-30-1, Stearylamine 104162-48-3, Dotma **137056-72-5**
 144189-73-1, Dotap 158571-62-1, Lipofectamine 205056-57-1
 RL: DEV (Device component use); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
 (cationic liposomes with entrapped polynucleotides for use as gene
vaccines)

IT **137056-72-5**
 RL: DEV (Device component use); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
 (cationic liposomes with entrapped polynucleotides for use as gene
vaccines)

RN 137056-72-5 HCAPLUS
 CN Cholest-5-en-3-ol (3. β .)-, [2-(dimethylamino)ethyl]carbamate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L27 ANSWER 24 OF 28 HCPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1997:812174 HCAPLUS

DOCUMENT NUMBER: 128:93230

TITLE: Compositions comprising cationic amphiphiles and co-lipids for intracellular delivery of therapeutic molecules

INVENTOR(S): Fasbender, Allen J.; Welsh, Michael J.; Siegel, Craig S.; Lee, Edward R.; Chang, Chau-Dung; Marshall, John; Cheng, Seng H.; Harris, David J.; Eastman, Simon J.; Hubbard, Shirley C.; Lane, Mathieu B.; Rowe, Eric A.; Scheule, Ronald K.; Yew, Nelson S.

PATENT ASSIGNEE(S): Genzyme Corporation, USA; University of Iowa Research Foundation

SOURCE: PCT Int. Appl., 108 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

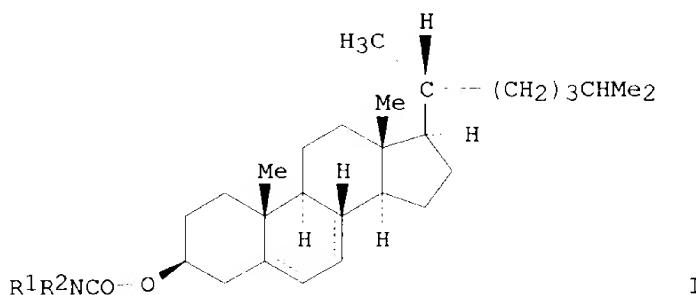
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9746223	A1	19971211	WO 1997-US9142	19970530
W: CA, JP				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5935936	A	19990810	US 1996-657238	19960603
CA 2228444	AA	19971211	CA 1997-2228444	19970530
EP 845981	A1	19980610	EP 1997-929716	19970530
EP 845981	B1	20020925		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 11511757	T2	19991012	JP 1997-500678	19970530
AT 224705	E	20021015	AT 1997-929716	19970530
PRIORITY APPLN. INFO.:			US 1996-657238	A 19960603
			WO 1997-US9142	W 19970530

OTHER SOURCE(S): MARPAT 128:93230

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AB Compns. comprising a steroidal polyamine [e.g. I; R1 = H2N(CH2)yNH(CH2)x; R2 = H2N(CH2)y'NH(CH2)x'; x, x', y, y' .gtoreq.2; H2N(CH2)y' may be replaced by H; bonds at C-5 and C-7 in steroid ring are single or double] or other cationic amphiphile and a phosphatidylethanolamine contg. 2 C16-18 unsatd. fatty acyl residues as co-lipid facilitate entry of DNA, hormones, antibiotics, and other therapeutically active mols. into cells and are useful in gene therapy. Particular addnl. (lyso)phosphatidylethanolamines (helper co-lipids) can contribute to the effectiveness of the primary co-lipid, even if the combination of cationic amphiphile and helper co-lipid alone is relatively ineffective. Excipients such as sugars may also be present to stabilize the amphiphile-DNA complex against oxidn., hydrolysis, irreversible aggregation, and interaction with container surfaces. Thus, a 1:1 mixt. of spermidine cholesterol carbamate [I; x = 4, x' = 3, H2N(CH2)y and H2N(CH2)y' replaced by H, single bond at C-7 of steroid] (II) and dioleoylphosphatidylethanolamine facilitated transfection of Cl- transport-deficient CFT-1 human cystic fibrosis bronchial epithelial cells with plasmids contg. DNA encoding either .beta.-galactosidase or the Cl- channel protein (CFTR protein) in which the cells are deficient. II was prep'd. by condensation of cholesteryl chloroformate with N1,N8-dicarbobenzoxypermidine and deprotection by hydrogenolysis over Pd/C.

IC ICM A61K009-127
ICS C12N015-88

CC 63-6 (Pharmaceuticals)

IT **Vaccinia virus**
(transfection with; compns. comprising cationic amphiphiles and co-lipids for intracellular delivery of therapeutic mols.)

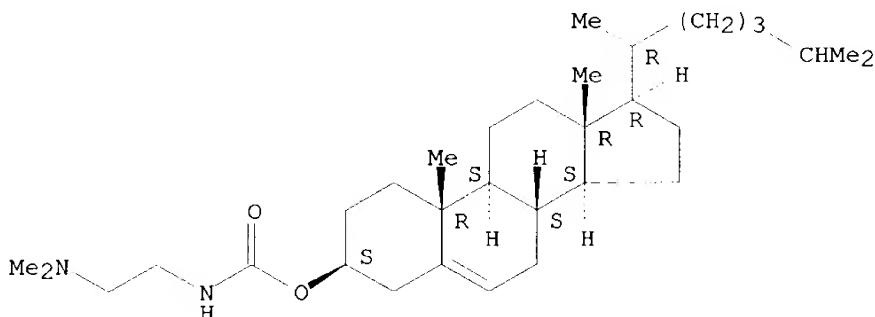
IT 4009-43-2 16777-83-6, Dielaidoylphosphatidylethanolamine 26662-94-2
26662-95-3 34813-40-6 53862-35-4 55252-82-9,
Dilinoleoylphosphatidylethanolamine 61599-23-3 69747-55-3 85046-18-0
89576-29-4 **137056-72-5** 201036-16-0
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(compns. comprising cationic amphiphiles and co-lipids for intracellular delivery of therapeutic mols.)

IT **137056-72-5**
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(compns. comprising cationic amphiphiles and co-lipids for intracellular delivery of therapeutic mols.)

RN 137056-72-5 HCAPLUS

CN Cholest-5-en-3-ol (3.beta.)-, [2-(dimethylamino)ethyl]carbamate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L27 ANSWER 25 OF 28 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1997:326850 HCAPLUS
DOCUMENT NUMBER: 126:308806
TITLE: Emulsion and micellar formulations for the delivery of
biologically active substances to cells
INVENTOR(S): Liu, Dexi; Liu, Feng; Yang, Jing-Ping; Huang, Leaf
PATENT ASSIGNEE(S): University of Pittsburgh, USA
SOURCE: PCT Int. Appl., 53 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

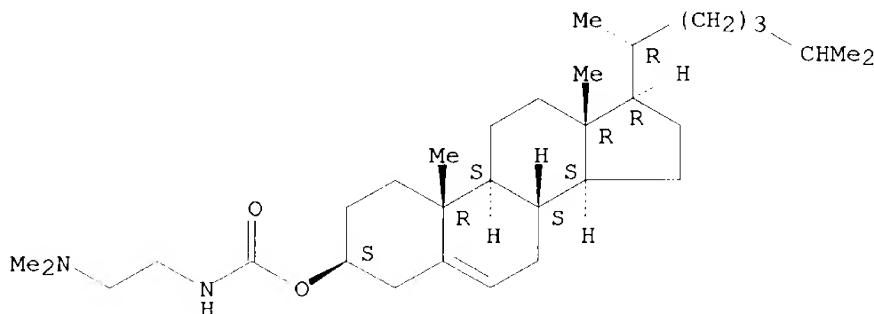
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9711682	A2	19970403	WO 1996-US15388	19960926
WO 9711682	A3	19970710		
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA				
US 6120794	A	20000919	US 1995-534180	19950926
CA 2230940	AA	19970403	CA 1996-2230940	19960926
AU 9672458	A1	19970417	AU 1996-72458	19960926
AU 721245	B2	20000629		
EP 852490	A2	19980715	EP 1996-933899	19960926
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 11512712	T2	19991102	JP 1996-513608	19960926
US 2002090377	A1	20020711	US 2002-38417	20020102
PRIORITY APPLN. INFO.:			US 1995-534180	A 19950926
			WO 1996-US15388	W 19960926

AB New emulsion and micelle formulations are described as are complexes of these formulations with biol. active substances. The novel formulations are different from cationic lipid vectors such as cationic liposomes in

that the complexes formed between biol. active substances and the emulsion and micellar formulations of this invention are phys. stable and their transfection activity is resistant to the presence of serum. These novel formulations are disclosed to be useful in areas such as gene therapy or **vaccine** delivery. E.g., an emulsion with transfection ability of DNA-emulsion complexes contg. castor oil, egg phosphatidylcholine, Tween 80 and a cationic cholesterol deriv. was stable.

IC ICM A61K009-107
 CC 63-6 (Pharmaceuticals)
 IT 2462-63-7, Dioleoylphosphatidylethanolamine 9005-65-6, Tween 80
137056-72-5
 RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (emulsion and micellar formulations for the delivery of biol. active substances to cells)
 IT **137056-72-5**
 RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (emulsion and micellar formulations for the delivery of biol. active substances to cells)
 RN 137056-72-5 HCAPLUS
 CN Cholest-5-en-3-ol (3. β .)-, [2-(dimethylamino)ethyl]carbamate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



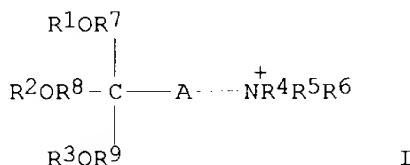
L27 ANSWER 26 OF 28 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1996:716309 HCAPLUS
 DOCUMENT NUMBER: 125:339076
 TITLE: Use of a cationic amphipathic compound as a transfection agent, **vaccine** additive or drug
 INVENTOR(S): Haensler, Jean
 PATENT ASSIGNEE(S): Pasteur Merieux Serums Et Vaccins, Fr.
 SOURCE: PCT Int. Appl., 38 pp.
 CODEN: PIXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 9632102	A1	19961017	WO 1996-FR547	19960411
W: AU, CA, JP, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
FR 2732895	A1	19961018	FR 1995-4615	19950411
FR 2732895	B1	19970516		
CA 2192597	AA	19961017	CA 1996-2192597	19960411
AU 9656517	A1	19961030	AU 1996-56517	19960411
AU 704369	B2	19990422		
EP 769942	A1	19970502	EP 1996-913569	19960411
EP 769942	B1	20020911		
R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, MC, NL, PT, SE				
JP 10501822	T2	19980217	JP 1996-530772	19960411
AT 223716	E	20020915	AT 1996-913569	19960411
EP 1245249	A2	20021002	EP 2002-14143	19960411
EP 1245249	A3	20021211		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, MC, PT, IE, FI				
US 6124270	A	20000926	US 1997-750503	19970303
PRIORITY APPLN. INFO.:			FR 1995-4615	A 19950411
			EP 1996-913569	A3 19960411
			WO 1996-FR547	W 19960411

OTHER SOURCE(S): MARPAT 125:339076

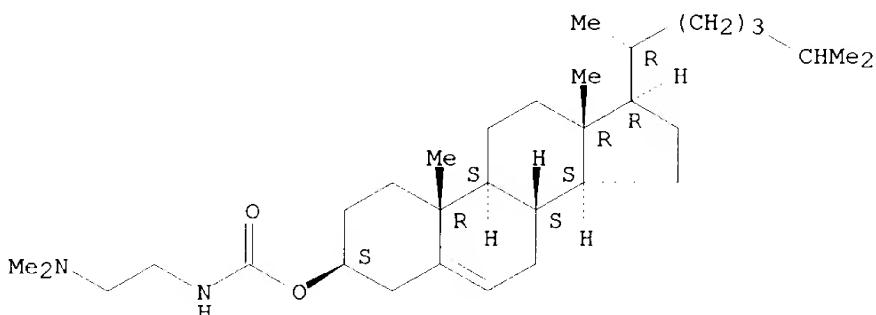
GI



AB A cationic amphipathic compd. [I, A = single bond, an NHR' , NHCOR' (R' = a straight or branched, optionally substituted, satd. or unsatd. C1-22 aliph. chain optionally interrupted by one or more O, S or N heteroatoms and one or more satd., unsatd. or arom. carbocyclic or heterocyclic radicals); R1, R2 and R3 = higher acyl or alkyl grouping; R7, R8 and R9= $(\text{CH}_2)_n$ alkylene radical (1.ltreq.n.ltreq.6); R4, R5, R6 = H, substituted C1-22 alkyl, alkenyl, alkynyl or acyl radical optionally interrupted by one or more heteroatoms selected from O, S and N, or one or more satd., unsatd. or arom. carbocyclic or heterocyclic radicals, or else at least two of the groupings R4, R5 and R6, taken together with the N atom to which they are attached, form a quinolidino, piperidino, pyrrolidino or morpholino grouping, and X is a non-toxic anion] are useful as a drug, a transfection agent or an additive in a **vaccine** compn. Thus, 4 mg of O, O', O''-tridodecanoyl-N-(.omega.-trimethylammoniododecanoyl)-tris-(hydroxymethyl)aminomethane (II) was dissolved in 50. μL EtOH at 42.degree., this soln. was then quickly injected through a syringe in 1770 μL water followed by refrigeration to obtain a liposomal suspension. To the above liposomal suspension was added 230 μL grippe **vaccine** which contained 220 μg **hemagglutinin** HA/ML and the mixt. thus obtained was divided in 10 doses of 200 μL contg. 5 μg **hemagglutinin** HA and 400 μg II. Strong **adjuvant** activity of the liposomal compn. is shown in immunized

IC guinea pigs.
ICM A61K031-23
CC 63-6 (Pharmaceuticals)
ST cationic amphipathic compd transfection agent **vaccine**; alkyl
quaternary ammonium **adjuvant vaccine**
IT Transformation, genetic
Vaccines
(use of cationic amphipathic compd. as transfection agent,
vaccine additive or drug)
IT Deoxyribonucleic acids
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(use of cationic amphipathic compd. as transfection agent,
vaccine additive or drug)
IT Immunostimulants
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(**adjuvants**, use of cationic amphipathic compd. as
transfection agent, **vaccine** additive or drug)
IT Pharmaceutical dosage forms
(liposomes, use of cationic amphipathic compd. as transfection agent,
vaccine additive or drug)
IT 2462-63-7 88932-06-3 88932-07-4 88932-08-5 88932-09-6 88932-10-9
137056-72-5 183615-21-6
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(use of cationic amphipathic compd. as transfection agent,
vaccine additive or drug)
IT **137056-72-5**
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(use of cationic amphipathic compd. as transfection agent,
vaccine additive or drug)
RN 137056-72-5 HCAPLUS
CN Cholest-5-en-3-ol (3. β .)-, [2-(dimethylamino)ethyl]carbamate (9CI) (CA
INDEX NAME)

Absolute stereochemistry.



L27 ANSWER 27 OF 28 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1996:437984 HCAPLUS
DOCUMENT NUMBER: 125:96041
TITLE: **Adjuvant for vaccines** comprising a
sterol-derived lipophilic group bound to a cationic
group
INVENTOR(S): Haensler, Jean; Trannoy, Emmanuelle; Ronco, Jorge

PATENT ASSIGNEE(S): Pasteur Merieux Serums et Vaccins, Fr.
 SOURCE: PCT Int. Appl., 37 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9614831	A1	19960523	WO 1995-FR1495	19951114
W: AL, AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KG, KP, KR, KZ, LK, LR, LS, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TT, UA, US, UZ, VN				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
FR 2726764	A1	19960515	FR 1994-13606	19941114
FR 2726764	B1	19970131		
CA 2205022	AA	19960523	CA 1995-2205022	19951114
AU 9641802	A1	19960606	AU 1996-41802	19951114
AU 706131	B2	19990610		
EP 793484	A1	19970910	EP 1995-940309	19951114
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
CN 1168629	A	19971224	CN 1995-196601	19951114
CN 1096851	B	20021225		
JP 11500409	T2	19990112	JP 1995-515800	19951114
PRIORITY APPLN. INFO.:			FR 1994-13606	A 19941114
			WO 1995-FR1495	W 19951114

AB An amphipathic compd. including a sterol-derived lipophilic grouping bound to a cationic grouping for use as an **adjuvant** in the delivery of a **vaccine** compn. In a particular embodiment, the lipophilic grouping is a cholesterol deriv. and the cations grouping is a quaternary ammonium or a protonable amine. A **vaccine** compn. including one or more antigens with at least one amphipathic compd. having a sterol-derived lipophilic grouping bound to a cationic grouping, is also disclosed. A soln. of 2.25 g cholestryl chloroformate in 5 mL chloroform was stirred with a soln. of 2 mL N,N-dimethylethylenediamine in 3 mL chloroform at 0.degree. followed by evapn. of the solvent and the purifn. of 3. β -[N-(N'N'-dimethylaminoethane)-carbamoyl]-cholesterol (I) by recrystn. Thus, 300 mg I was dissolved in 100 .mu.L ethanol and 75 .mu.L of this soln was injected to 3 mL of water at 45.degree. and stirred for 5 min. The micellar suspension thus obtained was mixed with 200 .mu.L of a monovalent **influenza vaccine** and divided in 0.3 mL doses. The immunol. response of guinea pigs to the above **vaccine** was studied.

IC ICM A61K009-127

ICS A61K047-28; A61K039-39

CC 63-3 (Pharmaceuticals)

ST **vaccine adjuvant** sterol quaternary ammonium deriv;
cholesterol carbamoyl deriv **adjuvant influenza****vaccine**

IT Lipids, biological studies

VaccinesRL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(**adjuvant** for **vaccines** comprising sterol-derived
lipophilic group bound to cationic group)

IT Quaternary ammonium compounds, biological studies
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (conjugates with sterols; **adjuvant for vaccines**
 comprising sterol-derived lipophilic group bound to cationic group)

IT Virus, animal
 (**influenza, adjuvant for vaccines**
 comprising sterol-derived lipophilic group bound to cationic group)

IT Pharmaceutical dosage forms
 (liposomes, **adjuvant for vaccines** comprising
 sterol-derived lipophilic group bound to cationic group)

IT 108-00-9, N,N-Dimethylethylenediamine 7144-08-3, Cholesteryl
 chloroformate
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (**adjuvant for vaccines** comprising sterol-derived
 lipophilic group bound to cationic group)

IT **137056-72-5P**
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological
 study); PREP (Preparation); USES (Uses)
 (**adjuvant for vaccines** comprising sterol-derived
 lipophilic group bound to cationic group)

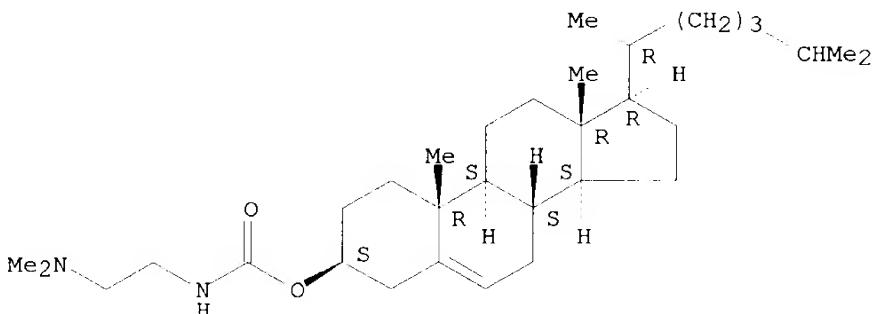
IT 2462-63-7 10015-85-7, Dioleoyl phosphatidylcholine 123628-75-1
 144108-36-1 **154440-71-8 178823-15-9**
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (**adjuvant for vaccines** comprising sterol-derived
 lipophilic group bound to cationic group)

IT **137056-72-5P**
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological
 study); PREP (Preparation); USES (Uses)
 (**adjuvant for vaccines** comprising sterol-derived
 lipophilic group bound to cationic group)

RN 137056-72-5 HCAPLUS

CN Cholest-5-en-3-ol (3. β .)-, [2-(dimethylamino)ethyl]carbamate (9CI) (CA
 INDEX NAME)

Absolute stereochemistry.

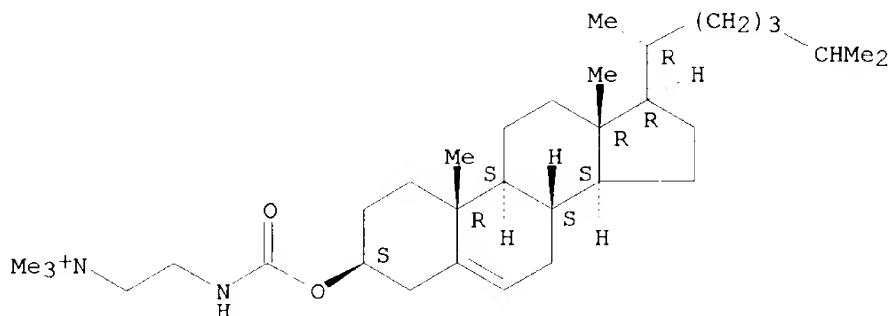


IT **154440-71-8 178823-15-9**
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (**adjuvant for vaccines** comprising sterol-derived
 lipophilic group bound to cationic group)

RN 154440-71-8 HCAPLUS

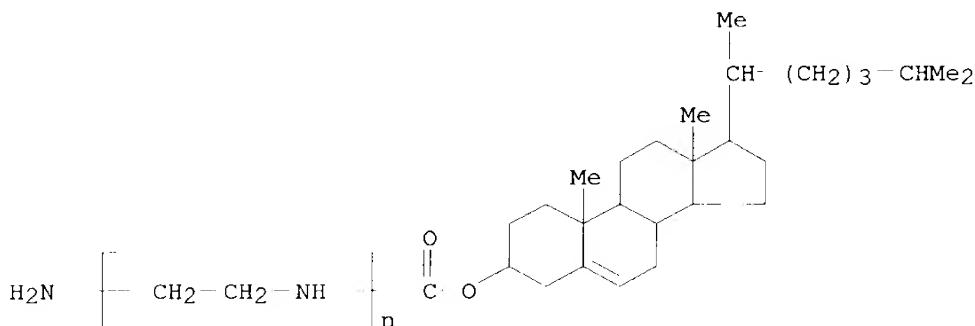
CN Cholest-5-en-3-ol (3. β .)-, ester with 2-(carboxyamino)-N,N,N-trimethylethanaminium iodide (9CI) (CA INDEX NAME)

Absolute stereochemistry.



I⁻

RN 178823-15-9 HCAPLUS
 CN Poly[imino(1,2-ethanediyl)], .alpha.-[[[(3.beta.)-cholest-5-en-3-yl]oxy]carbonyl]-.omega.-amino- (9CI) (CA INDEX NAME)



L27 ANSWER 28 OF 28 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1995:260263 HCAPLUS
 DOCUMENT NUMBER: 122:29689
 TITLE: Induction of alloreactive cytotoxic T lymphocytes by intra-splenic immunization with allogeneic class I major histocompatibility complex DNA and DC-chol cationic liposomes
 AUTHOR(S): Hui, Kam M.; Sabapathy, Tr. Kanaga; Oei, Audrey A.; Singhal, Arun; Huang, Leaf
 CORPORATE SOURCE: Institute of Molecular and Cell Biology, National University of Singapore, Singapore, 0511, Singapore
 SOURCE: Journal of Liposome Research (1994), 4(3), 1075-90
 CODEN: JLREE7; ISSN: 0898-2104
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB A simple strategy for designing a cancer immunotherapeutic system involves

modification of tumor cells from tumor-bearing animals in vivo in such a way that the host can evoke a specific immune response against them. We have expressed allogeneic class I major histocompatibility complex (MHC) mols. on tumor cells, through ex vivo DNA-mediated gene transfer. These mols. are potent immuno-modulators for the stimulation of strong immune reactions against certain malignancies. In order to achieve efficient gene delivery to tumor cells in vivo, we have compared the efficiencies of gene transfer into **mammalian** tumor cells by the biolistic particle delivery system and cationic liposomes. In this report, we have demonstrated that cationic liposomes prep'd. by DC-chol and DOPE gives the best efficiency of transfection for tumor cells in vivo. We also showed that a strong anti-H-2Kb allo-reactive cytotoxic T lymphocyte (CTL) response could be generated following in vivo immunization of AKR/J mouse spleens with the H-2Kb gene and DC-chol cationic liposomes. The direct immunization of mouse spleens to induce cell-mediated immunity against exogenous antigens may allow alternative treatment strategies for cancer immunotherapy.

CC 15-8 (Immunochemistry)
Section cross-reference(s): 63
ST cytotoxic T lymphocyte tumor H2Kb antigen; liposome H2Kb antigen tumor
vaccine
IT Liposome
(cationic; cytotoxic T lymphocyte response to tumor cells by
vaccination with H-2Kb DNA and DC-chol cationic liposomes)
IT Neoplasm
Vaccines
(cytotoxic T lymphocyte response to tumor cells by **vaccination**
with H-2Kb DNA and DC-chol cationic liposomes)
IT Gene, animal
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
(Uses)
(for H-2Kb antigen; cytotoxic T lymphocyte response to tumor cells by
vaccination with H-2Kb DNA and DC-chol cationic liposomes)
IT Histocompatibility antigens
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
(Uses)
(H-2Kb, gene for; cytotoxic T lymphocyte response to tumor cells by
vaccination with H-2Kb DNA and DC-chol cationic liposomes)
IT Lymphocyte
(T-cell, cytotoxic, cytotoxic T lymphocyte response to tumor cells by
vaccination with H-2Kb DNA and DC-chol cationic liposomes)
IT **137056-72-5**
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(cytotoxic T lymphocyte response to tumor cells by **vaccination**
with H-2Kb DNA and DC-chol cationic liposomes)
IT **137056-72-5**
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(cytotoxic T lymphocyte response to tumor cells by **vaccination**
with H-2Kb DNA and DC-chol cationic liposomes)
RN 137056-72-5 HCAPLUS
CN Cholest-5-en-3-ol (3.β.)-, [2-(dimethylamino)ethyl]carbamate (9CI) (CA
INDEX NAME)

Absolute stereochemistry.

Lucas 08/836, 576

February 26, 2003

